

حمل الآن

مجانا وحصريا

المراجعة رقم (1)

الترم الاول

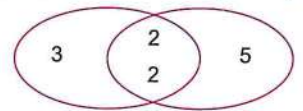


1. Choose the correct answer.

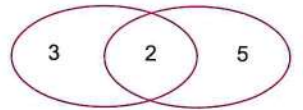
1. 235 is divisible by _____
 A. 2 B. 3 C. 5 D. 10
2. The number _____ is divisible by both 2 and 5
 A. 206 B. 425 C. 524 D. 620
3. Which of the following is divisible by 4 ?
 A. 441 B. 160 C. 483 D. 514
4. All the following are divisible by 6 except _____
 A. 924 B. 120 C. 663 D. 252
5. "331 + _____" is divisible by 3
 A. 0 B. 1 C. 2 D. 3
6. If the prime factorization of a number is $2 \times 2 \times 2$, then the number is _____
[Alexandria - West 24]
 A. 8 B. 4 C. 6 D. 222
7. 4 is a factor of _____
[El Menia - Matay 24]
 A. 40 B. 39 C. 38 D. 37
8. The number which its prime factors are 2, 3 and 5 is _____
[El Beheira - Kafr El Dawar 24]
 A. 10 B. 15 C. 30 D. 13
9. The common factor of all numbers is _____
[Kafr El Sheikh - Bayala 24, El Menofia - El Sadat 24]
 A. 0 B. 1 C. 2 D. 3
10. Which of the following are relatively prime numbers ?
[Ismailia 24]
 A. 4 and 6 B. 8 and 15 C. 8 and 18 D. 8 and 24
11. The G.C.F of two relatively prime numbers is _____
[Giza - Bolak 24]
 A. 0 B. 1 C. 2 D. 3
12. The G.C.F of 6 and 9 is _____
[Cairo - El Mokattam 24]
 A. 3 B. 18 C. 36 D. 1
13. The G.C.F of 6 and 10 is _____
[Cairo - El Zaitoun 24]
 A. 2 B. 3 C. 6 D. 10
14. The G.C.F of 4 and 9 is _____
[Cairo - El Maadi 24]
 A. 1 B. 4 C. 9 D. 36
15. The L.C.M of 4 and 12 is _____
[Port Said 24]
 A. 2 B. 4 C. 8 D. 12

16. In the opposite Venn diagram, the G.C.F is _____
 A. 60 B. 4
 C. 6 D. 20
17. In the opposite Venn diagram, the L.C.M is _____
 A. 2 B. 15
 C. 30 D. 10
18. In the opposite Venn diagram, the L.C.M is _____
 A. 1 B. 3
 C. 2×5 D. 30
19. $10 + 45 = 5 [\text{_____} + \text{_____}]$
 A. 10, 40 B. 5, 40 C. 9, 5
20. $35 + 42 = \text{_____} [5 + 6]$
 A. 35 B. 30 C. 6
21. _____ + _____ = $12 [5 + 1]$
 A. 17, 13 B. 60, 12 C. 60, 1
22. $24 + 16 = \text{_____}$
 A. $16 [2 + 1]$ B. $8 [3 + 2]$ C. $2 [12 + 6]$
23. $5 + 12 = \text{_____} [5 + 12]$
 A. 1 B. 5 C. 12
24. $\frac{2}{7} + \frac{3}{7} + \frac{5}{7} = \text{_____}$
 A. $\frac{8}{7}$ B. $\frac{9}{7}$ C. 1
25. $1\frac{2}{5} + 3\frac{1}{5} = \text{_____}$
 A. $3\frac{4}{5}$ B. $4\frac{3}{5}$ C. $3\frac{4}{10}$
26. $\frac{1}{2} + \frac{1}{3} = \text{_____}$
 A. $\frac{2}{5}$ B. $\frac{5}{6}$ C. $\frac{1}{6}$
27. $6\frac{1}{8} + \frac{3}{4} = \text{_____}$
 A. $7\frac{3}{4}$ B. $6\frac{7}{8}$ C. $6\frac{5}{8}$
28. $5\frac{1}{2} + 3\frac{1}{5} = \text{_____}$
 A. $8\frac{2}{7}$ B. $8\frac{7}{10}$ C. $8\frac{1}{2}$
29. $\frac{7}{9} - \frac{5}{9} = \text{_____}$
 A. $\frac{14}{9}$ B. $\frac{2}{9}$ C. $\frac{75}{99}$

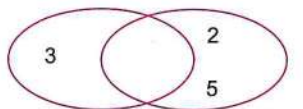
[El Monofia - Sers El Layan 24]



[El Beheira 24]



[Cairo - El Mokattam 24]



[Kaf El Sheikh - Bayala 24]

D. 2, 9

[Cairo - El Sahel 24]

D. 7

[Kaf El Sheikh - Bayala 24]

D. 5, 12

[Ismailia 24]

D. $4 [6 + 12]$

[Giza - Awseem 24]

D. 60

[El Monofia - El Bagour 24]

D. $1\frac{3}{7}$

[Giza - Bolak 24]

D. $3\frac{1}{5}$

[Port Said 24]

D. $\frac{2}{6}$

[Cairo - El Mostabal 24]

D. $7\frac{4}{8}$

[Cairo - El Mokattam 24]

D. $8\frac{2}{5}$

[Cairo 24]

D. $\frac{14}{18}$

30. $\frac{11}{7} - \frac{8}{7} = \underline{\hspace{2cm}}$

A. $\frac{3}{7}$

B. $\frac{19}{7}$

C. $\frac{3}{14}$

[El Beheira - kafr El Dawar 24]

D. $\frac{19}{14}$

31. $\frac{3}{4} - \frac{1}{11} = \underline{\hspace{2cm}}$

A. $\frac{2}{7}$

B. $\frac{37}{44}$

C. $\frac{29}{44}$

[Cairo - Rod El Farag 24]

D. $\frac{2}{11}$

32. $\frac{3}{8} - \frac{1}{4} = \underline{\hspace{2cm}}$

A. $\frac{3}{8}$

B. $\frac{1}{4}$

C. $\frac{1}{8}$

[Port Said 24]

D. $\frac{3}{4}$

2. Complete the following.

1. Each number is divisible by _____

2. $4 \times \underline{\hspace{2cm}} = 24$, then _____ is a multiple of each of _____ and _____, and also is divisible by each of _____ and _____.

3. The common multiple of all numbers is _____

[El Fayoum - West 24]

4. _____ has one factor only.

[Port Said - North 24]

5. $12 + 6 = 6 [\underline{\hspace{2cm}} + \underline{\hspace{2cm}}]$

[Cairo - El Mostabal 24]

6. $7 [5 + 3] = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

[Souhag 24]

7. $3 [\underline{\hspace{2cm}} + \underline{\hspace{2cm}}] = [3 \times 6] + [3 \times 7]$

[El Menia 24]

8. The L.C.M of 8 and 16 is _____

[Cairo - El Maadi 24]

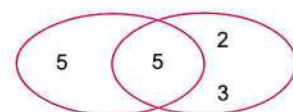
9. In the opposite Venn diagram.

[Alexandria - Middle 24]

A. The two numbers are _____ and _____

B. The G.C.F = _____

C. The L.C.M = _____

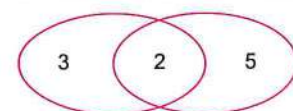


[Port Said - Port Fouad 24]

10. In the opposite Venn diagram.

A. G.C.F = _____

B. L.C.M = _____

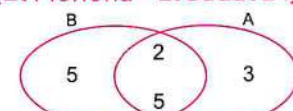


[El Monofia - El Sadat 24]

11. In the opposite Venn diagram.

A. G.C.F = _____

B. L.C.M = _____

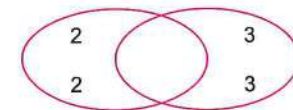


[Port Said - East 24]

12. In the opposite Venn diagram.

A. G.C.F = _____

B. L.C.M = _____



[Cairo - New 24]

13. $\frac{2}{6} + \frac{4}{6} = \underline{\hspace{2cm}}$

14. $\frac{2}{5} + \frac{3}{10} = \underline{\hspace{2cm}}$

[El Menia - Mallawi 24]

15. $\frac{4}{5} + \frac{1}{11} =$ _____

[Cairo 24]

16. $\frac{5}{6} - \frac{3}{8} =$ _____

[Kafr El Sheikh 24]

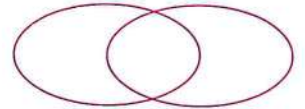
17. $3\frac{2}{5} - 1\frac{1}{10} =$ _____

[Beni Suef - Samesta 24]

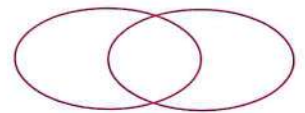
3. Answer the following questions.

1. Find [G.C.F] & [L.C.M] of the two numbers
[6 & 10], using Venn diagram.

[Giza - 6th October 24]



2. Find [G.C.F] of 7 and 12 using Venn diagram.



[Cairo - El Mokattam 24]

3. The following numbers shows the number of volunteers in 6 cities in Egypt.

The numbers are 21 , 102 , 225 , 120 , 100 and 101 complete :

A. The even numbers are _____

B. The odd numbers are _____

C. Which numbers are divisible by 2 ?

4. The Food Bank wants to distribute 118 food boxes. Is it possible to distribute the boxes among 4 villages equally ? and why ?

5. Sylvia has 21 pencils and 14 erasers. She wants to put them in groups. What is the greatest number of groups that can be made so that each group has the same number of items ?

How many pencils will be in each group ? How many erasers will be in each group ? and write the expression which represents the total number of items.

1. Choose the correct answer.

1. The integer which comes just before -3 is _____ [Ismailia 24]
 A. -4 B. -2 C. -1 D. 0
2. The integer which comes just after -1 is _____ [Port Said 24]
 A. -2 B. 1 C. 0 D. -2
3. Which of the following is an integer? [El Kalyoubia 24]
 A. $\frac{16}{5}$ B. $-\frac{2}{4}$ C. $-\frac{15}{5}$ D. -0.4
4. -83 _____ the set of natural numbers. [Assiut 24]
 A. is not a subset of B. is a subset of
 C. does not belong to D. belongs to
5. All the following numbers are rational except _____ [Cairo - El Mokattam 24]
 A. 1 B. $\frac{2}{7}$ C. $\frac{4-4}{7}$ D. $\frac{8}{5-5}$
6. The number which represents the temperature 3 below zero is _____ [Cairo - El Zaitoun 24]
 A. 0 B. -3 C. -5 D. 3
7. The integer which represents depth under sea level in meters is _____ [Cairo 24]
 A. 50 B. -50 C. $|-10|$ D. 0
8. The best subset of the number 0 is _____ number. [Cairo 24]
 A. a rational B. an integer C. a natural D. a counting
9. The number $\frac{1}{3}$ belongs to the set of _____ numbers. [Giza - Abo El Nomrous 24]
 A. integer B. natural C. rational D. counting
10. 3.5 is _____ number. [El Menia - Matay 24]
 A. a counting B. a natural C. an integer D. a rational
11. The sum of any two opposite numbers is _____ [Ismailia 24]
 A. 1 B. 2 C. 0 D. -1
12. Any negative number _____ zero. [Alexandria - El Montaza 24]
 A. $>$ B. $<$ C. $=$ D. otherwise
13. The set of counting numbers _____ the set of rational numbers. [El Monofia - Sers-El Layan 24]
 A. belongs to B. does not belong to C. is a subset of D. is not a subset of

14. The set of integers is a subset of the set of _____ numbers. [Kafr El Sheikh 24]
 A. counting B. prime C. rational D. natural
15. The number of integers on the number line is _____. [Assiut 24]
 A. 100 B. 2 C. infinite. D. 1
16. -3 _____ -1 [Ismailia 24]
 A. $<$ B. $>$ C. $\geq$ D. $=$
17. $3.8 >$ _____. [El Menia - Maghagha 24]
 A. 4.1 B. 5 C. -6.8 D. 6
18. $|-1.34| <$ _____. [El Kalyoubia 24]
 A. 1.4 B. -1.29 C. -1.4 D. 1.19
19. -1.4 _____ $|-1.4|$ [Kafr El Sheikh 24]
 A. $>$ B. $<$ C. $=$ D. otherwise
20. -4 _____ $|-3|$ [Cairo 24]
 A. $<$ B. $>$ C. $=$ D. otherwise
21. $-\frac{1}{2}$ _____ zero [Giza - Abo El Nomrous 24]
 A. $<$ B. $>$ C. $=$ D. $\geq$
22. -3 _____ the additive inverse of -3 [Cairo- Al Salam 24]
 A. $>$ B. $<$ C. $=$ D. otherwise
23. $\frac{5}{9} - \frac{1}{3}$ _____ $\frac{3}{3}$ [Giza - October Garden 24]
 A. $>$ B. $<$ C. $=$ D. $\geq$
24. The distance between the number 5 and its opposite on the number line equals _____ units. [Cairo - El Maadi 24]
 A. -5 B. 10 C. -10 D. 0
25. The distance between 0 and -2 on the number line is _____ units. [Cairo - El Mostabal 24]
 A. 0 B. 2 C. 4 D. -2
26. The number of integers between -2 and 2 is _____. [El Menia - Mallawi 24]
 A. -1 B. 2 C. 3 D. infinite.
27. The rational number between 2.4 and 2.5 is _____. [El Monofia - El Bagour 24]
 A. 2.53 B. 2.5 C. 2.43 D. 2.39
28. The rational number between -3.2 and -3.17 is _____. [Alexandria - Middle 24]
 A. 3.15 B. -3.15 C. -3.14 D. -3.18

29. _____ is lying between 2.14 and 2.2
 A. 2.15 B. 2.21 C. 2.20 D. 2.22
 [Cairo 24, El Menia - Matay 24]
30. The number of rational numbers lying between $-\frac{1}{4}$ and its opposite is _____ [Cairo 24]
 A. 0 B. 1 C. 2 D. an infinite number.
 [El Menia - Mallawi 24]
31. The number $0.3 =$ _____ [in the form of $\frac{a}{b}$]
 A. $\frac{3}{1}$ B. $\frac{10}{3}$ C. $\frac{3}{10}$ D. $-\frac{3}{10}$
 [El Monofia - Menof 24]
32. The number -1.5 in the form of $\frac{a}{b}$ is _____
 A. $-\frac{1}{5}$ B. $-\frac{5}{1}$ C. $-\frac{15}{10}$ D. $-5\frac{1}{10}$
 [El Menia - Maghagha 24]
33. The additive inverse of -15 is _____
 A. 1 B. -15 C. 15 D. 0
 [El Monofia - Shebin El Kom 24]
34. The additive inverse of $-|3|$ is _____
 A. -3 B. 3 C. $-|-3|$ D. $-\frac{1}{3}$

2. Complete the following.

1. $|-7| =$ _____ [El Beheira - Kafr El Dawar 24]
2. The smallest counting number is _____ [Qena 24]
3. The smallest non-negative integer is _____ [Giza - 6th October 24]
4. $|-4| + 4 =$ _____ [Qena 24]
5. $|4| \times |-4| =$ _____ [Cairo 24]
6. $|-3\frac{1}{4}| + |3\frac{1}{4}| =$ _____ [Cairo - El Nouzha 24]
7. The integer which comes directly before -1 is _____ [Kafr El Sheikh 24]
8. The number _____ is neither positive nor negative. [El Beheira - Kafr El Dawar 24]
9. The number of integers between -5 and 3 is _____ [Alexandria - Middle 24]
10. The additive inverse of -1 is _____ [El Menia - Samalout 24]
11. The additive inverse of 2.5 is _____ [El Menia - Deir Mawas 24]
12. The rational number 0.25 in the form of $\frac{a}{b}$ is _____ [Alexandria - Borg El Arab 24]
13. Two opposite numbers, one of them is 8 , then the other number is _____ [Giza - Abo El Nomrous 24]
14. The distance between 4 and $0 =$ _____ units. [Ismailia 24]
15. The smallest number of $[0.2, 0.12, 1.1 \text{ and } 2.1]$ is _____ [El Monofia - Tala 24]
16. The distance between 5 and $|-5|$ on the number line is _____ units. [El Menia - Matay 24]

3. Answer the following questions.

1. Represent the numbers 4, -3 and 2 on the number line.

[Cairo - El Salam 24]

2. Arrange the following numbers descendingly.

7, -9, -8, -10, 0, -6

[El Monofia - El Shohada 24]

3. Arrange in an ascending order :

1, -11, 3, -1, -8

[Port Said 24]

4. Arrange the set of numbers in an ascending order.

1.4, $-3\frac{1}{4}$, 2.1, $-1\frac{7}{8}$

[Cairo - El Zaitoun 24]

5. Order the given set of numbers from greatest to least, using the table shown.

3.4, $-2\frac{1}{2}$, 0, $-4\frac{3}{7}$, $3\frac{1}{4}$

[El Monofia - Sers El Layan 24]

Greatest				Least
_____	_____	_____	_____	_____

6. Write four rational numbers between 5.8 and 5.9

_____, _____, _____, _____

[El Menia - Mallawi 24]

1. Choose the correct answer.

1. Which of the following is a numeric expression ? [Cairo - El Salam 24]
 - A. $12 \div 3 + 5$
 - B. $5x - 1$
 - C. $2y + 3$
 - D. $4z - 1$
2. Which of the following is an algebraic expression ? [Alexandria - El Montaza 24]
 - A. $3^2 - 6$
 - B. $5x + 4$
 - C. $28 - 3^3$
 - D. $3[3 + 9]$
3. Which of the following is NOT a numeric expression ? [Kafr El Sheikh - Bayala 24]
 - A. $5x + 3$
 - B. $5^2 + 4$
 - C. $3 - 1^2$
 - D. $3 \times 5 + 1$
4. In the algebraic expression : $3y + 6$, the coefficient is _____ [El Menia - Matay 24]
 - A. 6
 - B. 3
 - C. y
 - D. 36
5. In the algebraic expression : $7 + 3x$, the coefficient is _____ [Cairo 24]
 - A. 7
 - B. $3x$
 - C. 3
 - D. -7
6. The constant in the expression : $3x + 7$ is _____ [Kafr El Sheikh 24]
 - A. 2
 - B. 3
 - C. 7
 - D. x
7. The constant in the expression : $2a + 7 + 4a$ is _____ [Port Said 24]
 - A. 2
 - B. 4
 - C. 7
 - D. a
8. The constant in the expression : $z - 2y + 5x + 3$ is _____ [El Monofia - El Shohada 24]
 - A. $5x$
 - B. $2y$
 - C. z
 - D. 3
9. The number of terms of the expression : $x + 12$ is _____ [Alexandria - El Montaza 24]
 - A. 2
 - B. 3
 - C. 1
 - D. 5
10. The number of terms of the expression : $3x + 2y + 5$ is _____ [Cairo - Rod El Farg 24]
 - A. 5
 - B. 3
 - C. 2
 - D. 1
11. The algebraic expression which consists of 3 terms is _____ [El Menia - Mallawi 24]
 - A. $2s + k + 7$
 - B. abc
 - C. $11r$
 - D. 3
12. The number of like terms in the expression : $4n + 4 + 3m + 2$ is _____ [Kafr El Sheikh 24]
 - A. 1
 - B. 2
 - C. 3
 - D. 4
13. The like terms in the expression : $2x + 3x + 8$ are _____ [Giza - 6th October 24]
 - A. $2x$ and 8
 - B. $2x$ and $3x$
 - C. $3x$ and 8
 - D. 8 and 3
14. Which of the following are like terms ? [El Monofia - Sers El Layan 24]
 - A. $3x$ and $3y$
 - B. xy and yz
 - C. $31x$ and $13x$
 - D. x and y
15. The age of Bassam now is x years , then his age after 3 years is _____ [Cairo - El Nouzha 24]
 - A. $x - 3$
 - B. x
 - C. $3x$
 - D. $x + 3$
16. Twice a number subtracted from it the number 5 is written as _____ [Cairo - El Maadi 24]
 - A. $2[x - 5]$
 - B. $5 - 2x$
 - C. $2[5 - x]$
 - D. $2x - 5$

17. 7 less a number k is written as _____
 A. $k - 7$ B. $7 - k$ C. $7 + k$ D. $\frac{k}{7}$ [El Monofia - Tala 24]
18. If we subtract 5 from the number x , we get _____
 A. $x + 5$ B. $5x$ C. $5^2 + x$ D. $x - 5$ [Port Said 24]
19. 4 times a number less than 6 is written as _____
 A. $4x + 6$ B. $6 - 4x$ C. $x^2 - 6$ D. $4x - 6$ [Cairo 24]
20. $5 \times 5 \times 5 \times 5 = 5$ _____
 A. 2 B. 3 C. 4 D. 20 [Luxor 24]
21. The base in the exponential expression 9^2 is _____
 A. 9 B. 2 C. 9^2 D. otherwise. [Aswan 24]
22. $2^3 =$ _____
 A. $2 \times 2 \times 2$ B. 3×3 C. 3^2 D. 3×2 [Cairo - El Mokattam 24]
23. Five squared = _____
 A. 2^5 B. 5^2 C. 5^5 D. 2^2 [El Fayoum 24]
24. 8 cubed = _____
 A. 8×8 B. 8^3 C. $8 + 8$ D. 8×3 [Ismailia 24]
25. Three squared add to five cubed equals _____
 A. $3 \times 3 + 5 \times 5$ B. $3^2 + 5^3$ C. $3^3 + 5^2$ D. $3^3 + 2^5$ [Giza 24]
26. The first operation you perform in : $20 \div 5 + [7 - 2]^2$ is _____
 A. addition. B. subtraction. C. exponent. D. division. [Alexandria - El Montaza 24]
27. The first operation you perform in the expression : $6 + 12 - 2 \times 2^2$ is _____
 A. addition. B. multiplication. C. subtraction. D. exponent. [Cairo - New 24]
28. $24 \div 2^3 + 1 =$ _____
 A. 4 B. 5 C. 6 D. 11 [El Monofia - Menof 24]
29. The value of the expression : $5n - 2$ for $n = 1$ is _____
 A. 5 B. 3 C. -2 D. 1 [Cairo - Rod El Farag 24]
30. What expression is equivalent to : $2x + 10$?
 A. $2(x + 5)$ B. $12x$ C. $20x$ D. $2x + 5 + 2$ [Cairo - Rod El Farag 24]
31. All the following expressions are equivalent except _____
 A. $4x + 8$ B. $2(2x + 4)$ C. $4(x + 4)$ D. $4(x + 2)$ [El Monofia - Tala 24]

2. Complete the following.

1. $5[3 + 4]$ is called _____ expression. [El Menia - Mallawi 24]
2. In the algebraic expression : $2n + 7$, the coefficient is _____. [El Beheira 24]
3. The constant in the algebraic expression : $5x + 3b + 4$ is _____. [El Fayoum 24]

4. The like terms in the algebraic expression : $6x + 3x + 3$ are _____ [Aswan 24]
5. The age of Ahmed now is x years , then his age after 5 years is _____ [El Monofia - Tala 24]
6. 10 less a number is written as _____ [Cairo - El Nouzha 24]
7. The verbal form of : a^2 is _____ [Cairo - El Mostabal 24]
8. The verbal expression of : $2m - 7$ is _____ [El Fayoum 24]
9. The variable in the expression : $5a + 3$ is _____ [El Monofia - El Sadat 24]
10. In 7^2 , the base is _____ and the exponent is _____ [Cairo - New 24]
11. $9 \times 9 \times 9 \times 9 = 9$ _____ [Alexandria - Middle 24]
12. $3^3 =$ _____ [Alexandria - El Gamarek 24]
13. $20 \div 4 + 3 \times 5 - 5 =$ _____ [El Beheira - Kafr El Dawar 24]
14. $[3^2 + 4] \div 13 =$ _____ [El Fayoum 24]
15. The value of the expression : $2x + 3$ for $x = 5$ is _____ [Cairo 24]

3. Answer the following questions.

1. Use the order of mathematical operations to simplify :

A. $4 + 3^2 \times 2 \div [5 + 1]$ [El Monofia - El Bagour 24]

B. $25 + 12 - 2^2 + [5^2 - 20]$ [Alexandria - Borg El Arab 24]

2. Write the algebraic expression : the sum of 2 times x and 5 [Cairo - El Sahel 24]

3. Evaluate the expression :

A. $6 + [8x - 3]$ when $x = 1$ [Aswan 24]

B. $5x^2 + 8 \div [6 - 4] \div 2$ at $x = 3$ [Kafr El Sheikh - Bayala 24]

4. Check the following expressions are equivalent or not ?

$2 + 8x$ and $3 + 2[x + 4]$

1. Choose the correct answer.

1. " $2s + 1 = 5$ " represents _____

- A. a numeric expression.
C. an equation.

- B. an algebraic expression.
D. an inequality.

[El Beheira - Kafr El Dawar 24]

2. If $y + 4 = 15$, then $y =$ _____

- A. 18 B. 12

C. 11

D. 10

[Alexandria - El Gamarek 24]

3. If $x - 3 = 5$, then $x =$ _____

- A. 2 B. 3

C. 5

D. 8

[Cairo 24]

4. If $3a = 12$, then $a =$ _____

- A. 12 B. 9

C. 36

D. 4

[Assiut 24]

5. If $\frac{x}{2} = 3$, then $x =$ _____

- A. 2 B. 3

C. 6

D. 1.5

[Giza 24]

6. If $x + 3 = 5$, then $3x =$ _____

- A. 5 B. 8

C. 6

D. 1

[Assiut 24]

7. If $80 - m = 15$, then $m =$ _____

- A. 10 B. 65

C. 95

D. 56

[Cairo 24]

8. if $x + x = 12$, then $x =$ _____

- A. 1 B. 2

C. 6

D. 24

[El Menia - Matay 24]

9. Which of the following is an inequality ?

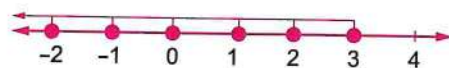
- A. $x + 2$ B. $x - 4 = y$ C. $x < 7$

D. $[20 \div 5]^2$

[El Monofia - El Sadat 24]

10. The inequality that represented by the opposite number line is _____

- A. $x > 3$ B. $x \geq 3$
C. $x < 3$ D. $x \leq 3$



[Giza - Abo El Nomrous 24]

11. The inequality which represents the numbers greater than 3 is _____

- A. $x > 3$ B. $x < 3$ C. $x \geq 3$ D. $x \leq 3$

[Cairo - El Salam 24]

12. The inequality representing negative numbers is _____

- A. $x > 0$ B. $x < 0$ C. $x \leq 0$ D. $x \geq 0$

[Alexandria - Middle 24]

13. Number of solutions of inequality : $x > -4$ in integers is _____

- A. 4 B. -4 C. 0 D. infinite.

[Cairo - El Mostabal 24]

14. _____ is one of solutions of $x < -1$

- A. 0 B. 1 C. -2 D. 3

[El Monofia - Menof 24]

15. The number _____ is one of solutions of the inequality : $x \leq 4$ [El Fayoum 24]
 A. 10 B. -1 C. 12 D. 5
16. All the following are solutions of the inequality : $x < -1$ except _____ [El Kalyoubia 24]
 A. -5 B. -4 C. -3 D. -1

2. Complete the following.

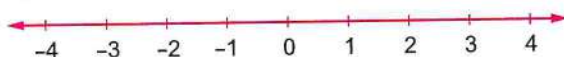
1. If $k + 1 = 5$, then $k - 3 =$ _____ [Assiut 24]
 2. If $m - 2 = 7$, then $m + 1 =$ _____ [Cairo 24]
 3. If $7x = 0$, then $21x =$ _____ [Cairo - El Mostabal 24]
 4. The equation that represents the opposite figure is _____
-
5. If $\frac{2}{5}x = \frac{2}{5}$, then $x =$ _____ [El Beheira 24]
 6. The value of x in the equation : $\frac{1}{2}x = 4$ is _____ [El Kalyoubia 24]
 7. If $|-9| = x$, then $x =$ _____ [Cairo - El Salam 24]
 8. If $6y = 18$, then $\frac{1}{3}y =$ _____ [Port Said - Port Fouad 24]
 9. The smallest solution of the inequality : $x \geq -5$ is _____ [Cairo - Rod El Farag 24]
 [Alexandria - El Montaza 24]

3. Answer the following questions.

1. Solve each of the following equations :
 A. $9 + y = 16$ [Cairo 24]
 B. $x - 3 = 12$ [El Kalyoubia 24]
 C. $y - 0.2 = 0.8$ [El Monofia - Shebin El Kom 24]
 D. $5t = 20$ [Giza - Awseem 24]
 E. $x + 17 = 29$ [Ismailia 24]

2. Find 4 possible solutions for the inequality :
 $x \geq -2$ in the integer numbers. [Cairo 24]

3. Represent the following inequality on the number line : $x \geq 2$ [Giza - Abo El Nomrous 24]



1. Choose the correct answer.

1. In $y = 2x + 1$, the dependent variable is _____. [Qena 24]
 A. 2 B. 1 C. x D. y
2. In the equation : $5x + 3 = y$, the dependent variable is _____. [Cairo 24]
 A. x B. y C. 5 D. 3
3. The independent variable in the equation : $x = 3y - 2$ is _____. [Alexandria - El Montaza 24]
 A. x B. y C. 3 D. 2
4. In the equation : $m = 5n + 3$, the independent variable is _____. [Ismailia 24]
 A. m B. 3 C. n D. 4
5. The independent variable in the equation : $y = 4x$ is _____. [El Menia - Mallawi 24]
 A. y B. x C. 4 D. $4x$
6. If the production F depends on the number of working hours W, then the independent variable is _____. [Kafr El Sheikh 24]
 A. F B. W C. $F + W$ D. $F - W$
7. The relationship that represents the equation : $y = \frac{1}{5}x$ is _____. [El Menia - Matay 24]
 A. divide by 5 B. multiply by 5 C. add 5 D. subtract 5
8. "y equals the product of x and 3" represents _____. [Cairo - El Nouzha 24]
 A. $x = 3y$ B. $y = 3x$ C. $y = 3$ D. $y = x$
9. "y is four times x added to five" represents _____. [Beni Suef - Samesta 24]
 A. $x = 4y + 5$ B. $y = 4x + 5$ C. $x = 5y + 4$ D. $y = 5x + 4$
10. "Double of x added to 3 equals 13" as an equation is _____. [Cairo 24]
 A. $2x - 3 = 13$ B. $2x + 3 = 13$ C. $x - 3 = 13$ D. $x + 3 = 13$
11. In the equation : $y = 6x - 2$, the variable y represents the _____ number. [Cairo 24]
 A. input B. output C. independent D. otherwise
12. If $t = 5r$, then t is called _____ variable. [El Beheira - Kafr El Dawar 24]
 A. dependent B. independent C. constant D. otherwise
13. If $y = 3x$ and $x = 5$, then $y =$ _____. [Cairo - El Maadi 24]
 A. 3 B. 5 C. 8 D. 15
14. In the equation : $y = 2x + 4$, if $x = 5$, then $y =$ _____. [El Menia - Matay 24]
 A. 10 B. 14 C. 25 D. 29
15. In the equation : $y = x + 1$, if the output is 1, then the input is _____. [Ismailia 24]
 A. 0 B. 1 C. 2 D. 11

16. (2, _____) satisfies the rule : $y = x + 1$ [Ismailia 24]
 A. 1 B. 2 C. 3 D. 5
17. The ordered pair (5, _____) satisfies the equation : $y = 2x + 3$
 A. 16 B. 13 C. 10 D. 28
18. If $y = 7 + x$, then (_____, 10) satisfies the equation. [Cairo - New 24]
 A. 1 B. 3 C. 2 D. 4

2. Complete the following.

1. The dependent variable in the equation : $y = 3x$ is _____ [Cairo - El Zaitoun 24]
2. The dependent variable in the algebraic equation : $3m + 1 = n$ is _____ [El Monofia - Menof 24]
3. The dependent variable in the equation : $a = b + 2$ is _____ [Ismailia 24]
4. In the equation : $y = x + 1$, the independent variable is _____ [Port Said 24]
5. The independent variable in the equation : $x = 3y$ is _____ [El Monofia - Shebin El Kom 24]
6. In the equation : $l = 4m - 3$, the independent variable is _____ [Giza - Awseem 24]
7. The verbal phrase for the equation : $y = 5l$ is _____ [Giza 24]
8. The verbal phrase for : $h + 12 = 19$ is _____ [El Menia - Matay 24]
9. "3 increased by t equals s" in equation is _____ [Assiut 24]
10. If $y = 8x$ and $x = 3$, then $y =$ _____ [El Monofia - El Shohada 24]
11. If $y = x - 2$ and $x = 7$, then $y =$ _____ [El Monofia - El Sadaat 24]
12. In the equation : $y = 3x + 1$, if $x = 4$, then y would be _____ [Kafir El Sheikh - Bayala 24]
13. In the equation : $y = \frac{1}{2}x + 3$, if $x = 6$, then y would be _____ [El Monofia - Sers El Layan 24]
14. The ordered pair which satisfies the rule : $y = x + 2$ is (3, _____) [Beni Suef - Samesta 24]
15. (8, _____) satisfies the equation : $y = \frac{1}{8}x + 3$ [El Menia - Mallawi 24]
16. The equation from the table is _____ [Cairo - El Nouzha 24]

x	0	4	8	12
y	4	8	12	16

3. Answer the following questions.

1. If $y = 2x + 7$, find the value of y for $x = 4$ [Luxor 24]
2. If $y = 2x + 1$, find the value of y for $x = 5$ [Souhag 24]
3. Write an equation. Use the variables x and y , where x is the independent. Using the rule "Add 3", then substitute $x = \frac{1}{2}$ to evaluate y . [El Kalyoubia 24]

4. Write an equation use the variables x and y , where x is the independent, write the equation "multiply by 8 and add 3", substitute $x = \frac{1}{4}$ to evaluate y . [Giza - Awseem 24]

5. The price of a piece of sweets is 5 pounds, the number of pieces is x and the total cost is y . Write the equation which represents the relation between x and y . [Kafir El Sheikh 24]

6. Complete the following table according to the equation : $y = 3x + 2$ [Giza 24]

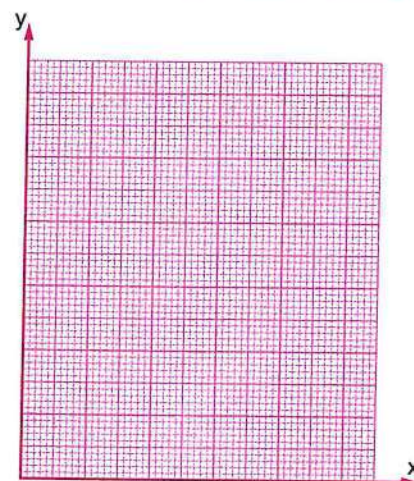
x	0	2	4	6
y	_____	_____	_____	_____

7. Complete the following table, then represent it graphically :

The equation : $y = x + 1$

[Port Said - East 24]

x	0	1	2
y	_____	_____	_____
(x, y)	(0, _____)	(1, _____)	(2, _____)



1. Choose the correct answer.

1. Which of the following is a statistical question ? [Cairo - El Sahel 24]
 - A. How old are you ?
 - B. Do you like the color red ?
 - C. What are the students favorite color in your class ?
 - D. What is the name of your school ?
2. The _____ is a numerical data. [Cairo - New 24]
 - A. nationality
 - B. place of birth
 - C. exam degree
 - D. name
3. The _____ is one of the numerical data. [Kafr El Sheikh 24]
 - A. name
 - B. nationality
 - C. weight
 - D. favourite color
4. The _____ is a categorical data. [El Menia - Mallawi 24]
 - A. age
 - B. length
 - C. weight
 - D. favourite color
5. The following data are numerical except the _____. [El Monofia - El Sadat 24]
 - A. height.
 - B. weight.
 - C. age.
 - D. birth place.
6. The following data are descriptive data except the _____. [El Monofia - Sers El Layan 24]
 - A. name.
 - B. age.
 - C. birth place.
 - D. blood species.
7. The best graph to represent the number of pupils whose height range from 150 - 160 is the _____. [El Menia - Matay 24]
 - A. dot plot.
 - B. bar graph.
 - C. histogram.
 - D. box plot
8. The _____ data is written in form of words. [Assiut 24]
 - A. numerical
 - B. categorical
 - C. mean
 - D. histogram
9. Which display makes it easier to see the median ? [El Beheira 24]
 - A. Histogram
 - B. Box plot
 - C. Dot plot
 - D. Bar graph
10. The _____ is the middle value of the data set after arranging it. [El Beheira 24]
 - A. mean
 - B. median
 - C. mode
 - D. range
11. The median of the values : 9 , 4 , 8 , 1 and 3 is _____. [El Fayoum - West 24]
 - A. 4
 - B. 1
 - C. 2
 - D. 3
12. The median for the set of data : 60 , 66 , 62 , 64 , 61 , 63 and 65 is _____. [Cairo - El Mostabal 24]
 - A. 62
 - B. 65
 - C. 61
 - D. 63
13. The median for the set of values : 109 , 90 , 114 , 120 , 97 , 104 , 93 , 98 , 127 and 94 is _____. [El Menia - Matay 24]
 - A. 98
 - B. 101
 - C. 104
 - D. 107

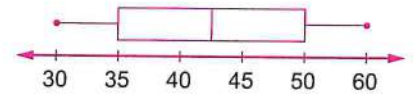
14. The shape that shows the lower quartile is the _____ [Cairo 24]
 A. histogram. B. box plot. C. dot plot. D. other.

15. The graph which is easier to represent 5 number summary is the _____ [Port Said - East 24]
 A. box plot. B. dot plot. C. histogram. D. bar graph.

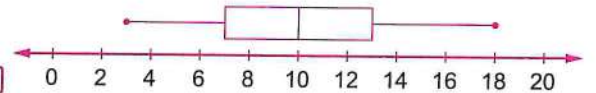
16. The lower quartile for the set of data : 72 , 64 , 77 , 61 , 79 , 63 , 76 , 75 and 60 is _____ [Kafr El Sheikh - Bayala 24]
 A. 61 B. 62 C. 70 D. 76

17. The upper quartile for the set of data : 100 , 101 , 103 , 97 , 98 , 99 and 102 is _____ [Kafr El Sheikh - Bayala 24]
 A. 103 B. 102 C. 98 D. 100

18. In the opposite box plot :
 , the upper quartile is _____ [Port Said 24]
 A. 30 B. 35 C. 50 D. 55



19. From the opposite box plot :
 The median is _____ [Cairo 24]
 A. 2 B. 4 C. 8 D. 10



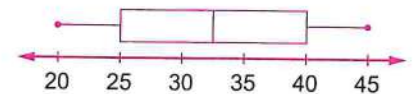
2. Complete the following.

1. The types of statistical questions are _____ and _____ [El Kalyoubia 24]
 2. The _____ shows the set of data in form of intervals. [El Beheira - Kafr El Dawar 24]
 3. The median of the values : 3 , 7 , 8 , 5 and 4 is _____ [Port Said - East 24]
 4. If the median of the values : $k + 1$, $k + 2$, $k + 3$, $k + 4$ and $k + 5$ is 13 , then $k =$ _____

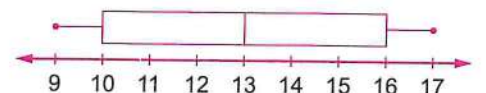
[Giza - October Garden 24]

5. If the opposite minimum value of the following data set :
 15 , 21 , 27 , 20 and 22 is _____ [Aswan 24]

6. If the opposite box plot shows the data for the
 average weights of some students, then the upper
 quartile = _____ [Giza 24]



7. From the following box plot :
 The first quartile is _____ [Cairo 24]

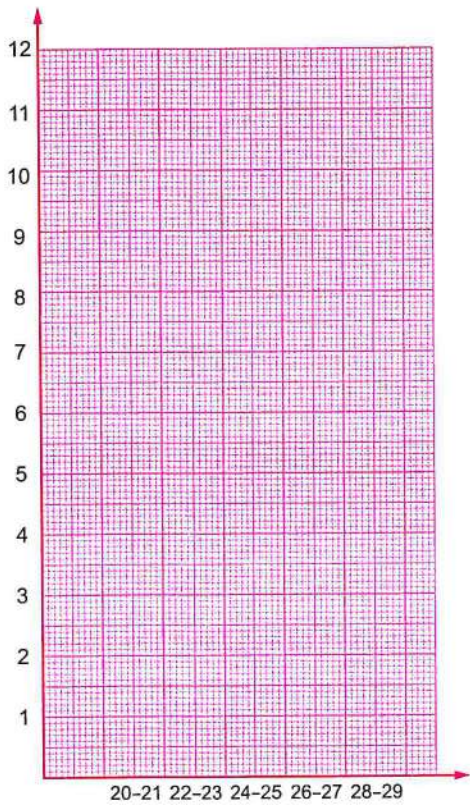


3. Answer the following.

1. The following table shows the recorded temperatures in 40 cities in one day.
Draw the histogram of the following table.

Interval temperature	Frequency of number of cities
20 - 21	8
22 - 23	12
24 - 25	9
26 - 27	7
28 - 29	4

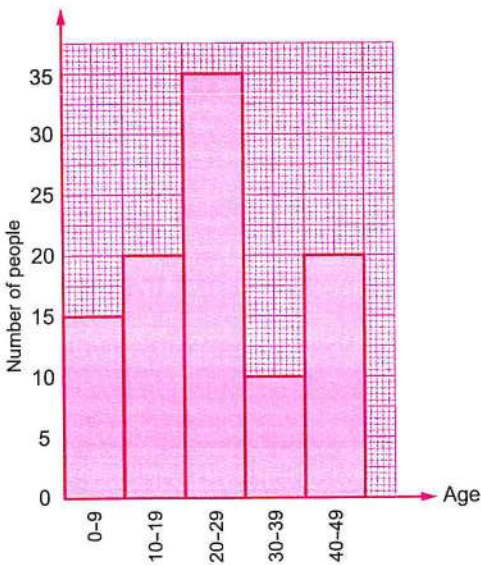
[El Monofia - Sers El Layan 24]



2. From the opposite histogram answer each of the following :

- A. The number of people were surveyed is _____
- B. The frequency in age interval 10 - 19 is _____
- C. How many people are 30 years or older ?

- D. How many people are younger than 20 years ?



[Beni Suef - Samesta 24]

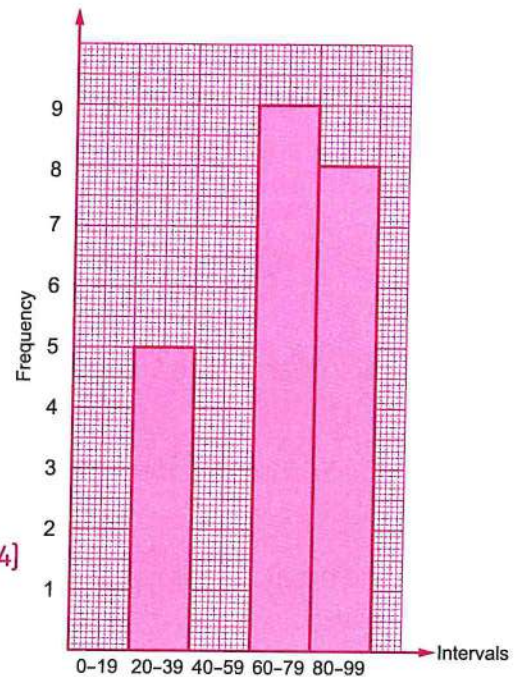
3. Using the opposite histogram

A. Complete the table.

B. Complete the graph.

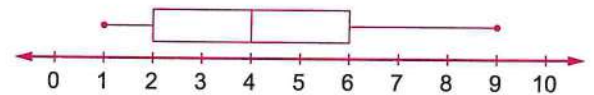
Intervals	Frequency
0 - 19	3
20 - 39	
40 - 59	7
60 - 79	
80 - 99	8

[Cairo - El Sahel 24]



4. From the opposite box plot :

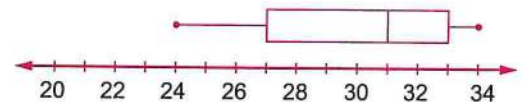
- The median = _____
- The first quartile = _____
- The third quartile = _____
- The range = _____



[El Monofia - El Sadat 24]

5. From the opposite box plot :

- The minimum value = _____
- The maximum value = _____
- Lower quartile Q1 = _____
- Upper quartile Q3 = _____



[Port Said - North 24]

6. Draw the box plot for the following data :

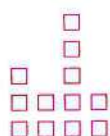
5, 7, 2, 1, 2, 10, 3, then complete the following.

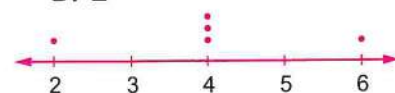
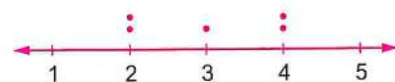
- Min. = _____
- Max. = _____
- Median = _____
- Q1 = _____
- Q3 = _____

[El Beheira 24]



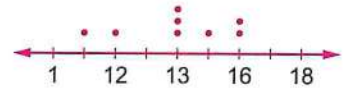
1. Choose the correct answer.

1. The mean = sum of the values _____ the number of values. [Port Said 24]
 A. + B. - C. x D. ÷
2. The mean of the values : 6 and 4 is _____ [Alexandria - El Gamarek 24]
 A. 3 B. 4 C. 6 D. 5
3. The mean of the values : 3 , 5 and 4 is _____ [El Beheira 24]
 A. 12 B. 5 C. 4 D. 3
4. The arithmetic mean of the values : 4 , 5 , 8 and 3 is _____ [Cairo - El Salam 24]
 A. 20 B. 4 C. 5 D. 6
5. The mean of the values : 3 , 5 , 4 , 7 and 6 is _____ [El Menia - Deir Mawas 24]
 A. 7 B. 3 C. 5 D. 8
6. The mean of the numbers : 5 , 8 , 10 , 8 and 4 is _____ [Cairo 24]
 A. 35 B. 7 C. 8 D. 10
7. The mean of the values : 0 , 6 , 2 , 8 , 3 and 5 is _____ [Kafr El Sheikh 24]
 A. 4 B. 5 C. 6 D. 24
8. The mean of the following set of data : 4 , 5 , 7 , 7 , 8 , 9 and 9 is _____ [Cairo 24]
 A. 6 B. 7 C. 8 D. 9
9. If the mean of 8 , 6 , x and 5 is 5 , then x = _____ [El Fayoum - West 24]
 A. 0 B. 1 C. 6 D. 3
10. If the mean of 3 , 7 , 4 , 6 and x is 5 , then x = _____ [Kafr El Sheikh 24]
 A. 2 B. 3 C. 5 D. 9
11. The mean of the following values  is _____ [Giza - Awseem 24]
 A. 2 B. 3 C. 4 D. 5
12. The balanced point of the set of data which represents the opposite dot plot is _____ [Alexandria - El Gamarek 24]
 A. 5 B. 3 C. 4 D. 2
13. From the opposite graph :
 The balance point is _____ [El Beheira 24]



- A. 6 B. 5 C. 4 D. 2

14. The balanced point of the set of data which represents the opposite dot plot is _____



[Cairo - El Sahel 24]

- A. 12 B. 13 C. 14 D. 15

15. The balance of the following data set : 17 ,18 ,20 ,20 ,20 ,21 ,21 ,21 and 22 is _____

[Cairo - El Nouzha 24]

- A. 21 B. 17 C. 20 D. 22

16. The mode of the values : 9 ,0 ,1 ,7 ,0 ,4 and 0 is _____

[Aswan 24]

- A. 0 B. 1 C. 7 D. 9

17. The mode of the values : 5 ,3 ,2 ,5 ,8 and 5 is _____

[El Menia - Maghagha 24]

- A. 8 B. 2 C. 3 D. 5

18. The mode of the set of data : 72 ,64 ,72 ,61 ,79 ,64 ,76 ,72 and 58 is _____ [Qena 24]

- A. 61 B. 60 C. 72 D. 79

19. If the mode of the numbers : 3 , $x - 1$,7 and 9 is 7 ,then $x =$ _____ [Cairo - El Mostabal 24]

- A. 7 B. 8 C. 9 D. 6

20. The outlier of the data set : 11 ,17 ,2 ,13 and 19 is _____

[Beni Suef - Samesta 24]

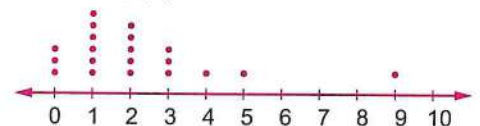
- A. 2 B. 13 C. 11 D. 7

21. The outlier of the following values : 1 ,4 ,52 ,3 and 7 is _____

[Souhag 24]

- A. 52 B. 1 C. 3 D. 7

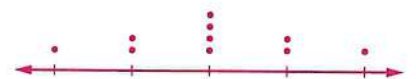
22. In the opposite dot plot ,
the outlier is _____



[Cairo - New 24]

- A. 0 B. 1 C. 2 D. 9

23. Which is best to measure central tendency of the opposite data set ?



[Giza - Bolak 24]

- A. Mean B. Median C. Either D. Lower quartial

24. The better measure of central tendency of the opposite dot plot is the _____



[El Menia 24]

- A. mean. B. median. C. either.

25. Which is best to measure the central tendency if outlier value is available ?

[Cairo - El Zaitoun 24]

- A. Range B. Median C. Mean D. Other

26. _____ = the largest value - the least value.

- A. The range B. The median C. The mode

27. The range of the values : 5 , 9 , 10 , 7 and 4 is _____

- A. 5 B. 6 C. 7

28. From the opposite box plot :

The range = _____

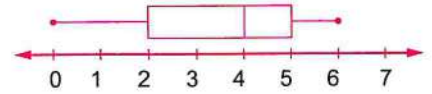
- A. 5 B. 6 C. 4

[Cairo - El Maddi 24]

D. The mean

[El Kalyoubia 24]

D. 10



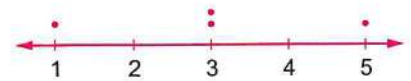
[El Monofia - Sers El Layan 24]

D. 2

2. Complete the following.

1. From the opposite dot plot :

The balance point is _____



[Assiut 24]

2. The balance point of

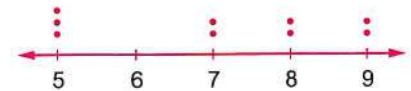
the opposite data is _____



[El Fayoum 24]

3. The mean of the values which represents

the opposite dot plot is _____



[Cairo - El Nouzha 24]

4. From the opposite dot plot :

The mean equals _____



[Kafr El Sheikh - Bayala 24]

5. From the opposite dot plot :

The median is _____



[Giza - Awseem 24]

6. The mean of the values : 6 , 7 , 12 and 15 is _____

[Alexnadria - Middle 24]

7. The mean of the values : 5 , 4 , 1 , 2 and 3 is _____

[El Monofia - El Sadat 24]

8. The mode of the values : 7 , 9 , 7 , 8 , 7 , 6 , 7 and 10 is _____

[Port Said - North 24]

9. The mode of the values : 3 , 7 , 5 , 4 , 7 , 1 and 7 is _____

[El Monofia - El Bagour 24]

10. The values that lie outside most of the other values in a set of data is called _____

[El Monofia - Menof 24]

11. The outlier value of the following data set is _____

[Assiut 24]

22 , 94 , 26 , 24 , 25 , 27 , 21

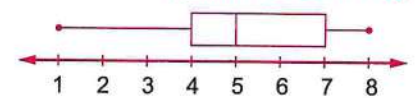
12. The outlier value of the following data : 91 , 94 , 93 , 4 , 90 , 99 is _____

[Alexandria - Middle 24]

13. The range = the greatest value – _____
14. The range of the numbers : 3 , 6 , 7 , 9 and 5 is _____
15. In the opposite box plot , _____ [El Beheira 24]
The range = _____

[Alexandria - El Montaza 24]

[Cairo - El Sahel 24]



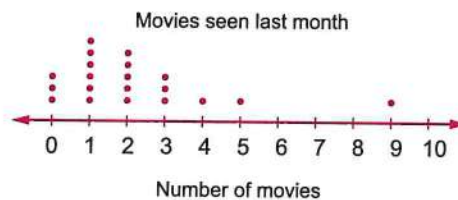
3. Answer the following.

1. From the following dot plot answer the following questions

[Giza - 24]

A. How many people saw 3 movies ?

B. How many people saw 2 movies or more ?

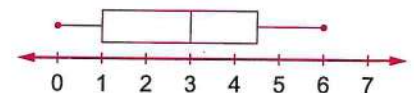


2. The opposite box plot shows the data of some student.
Complete.

[Kafr EL Sheikh 24]

A. The median is _____

B. The range is _____



3. Using the values : 40 , 5 , 39 , 50 and 51

[Kafr EL Sheikh 24]

A. The outlier is _____

B. The mean is _____

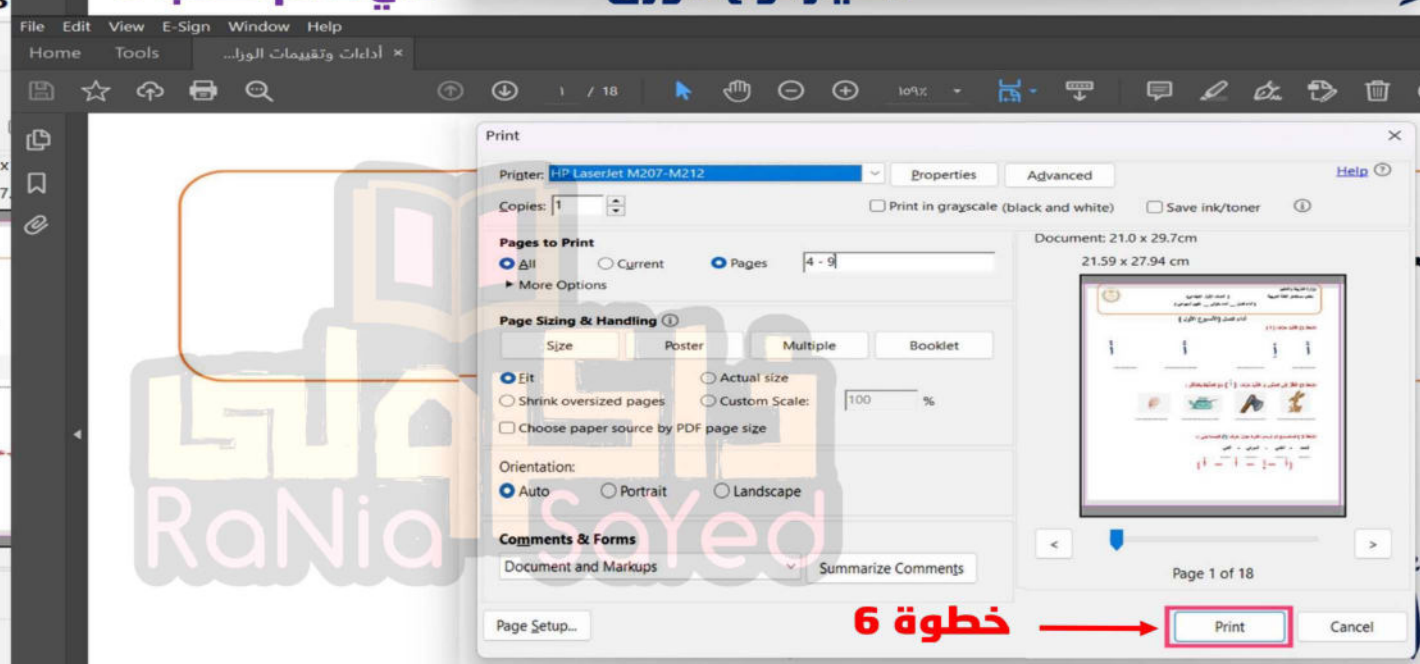
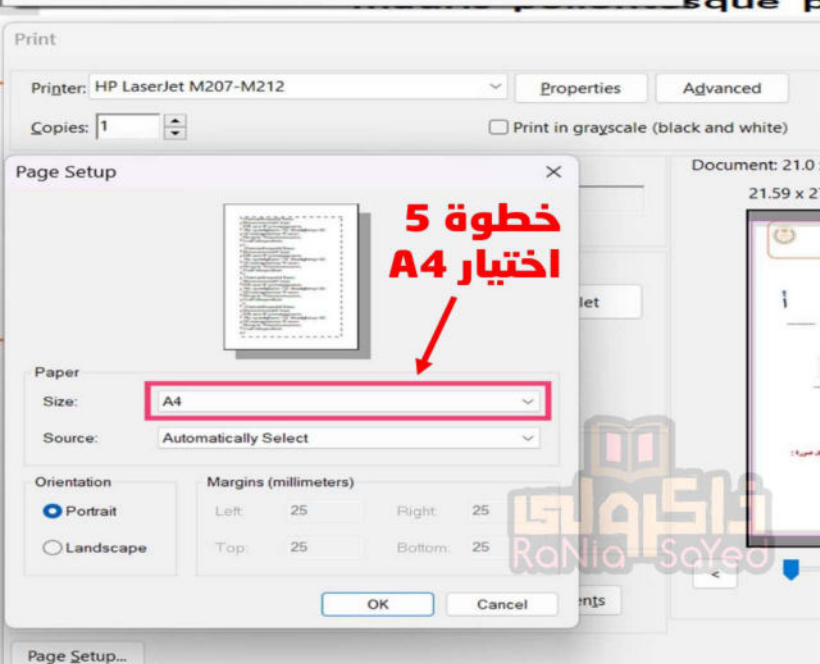
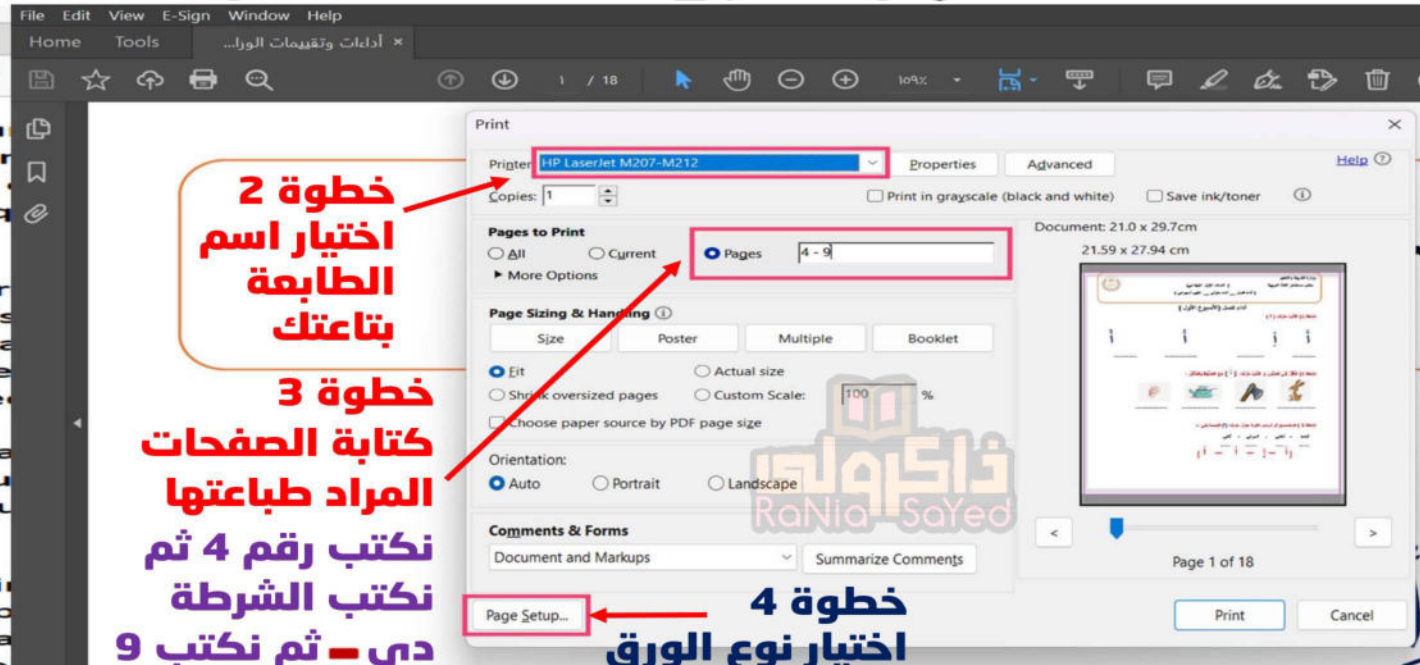
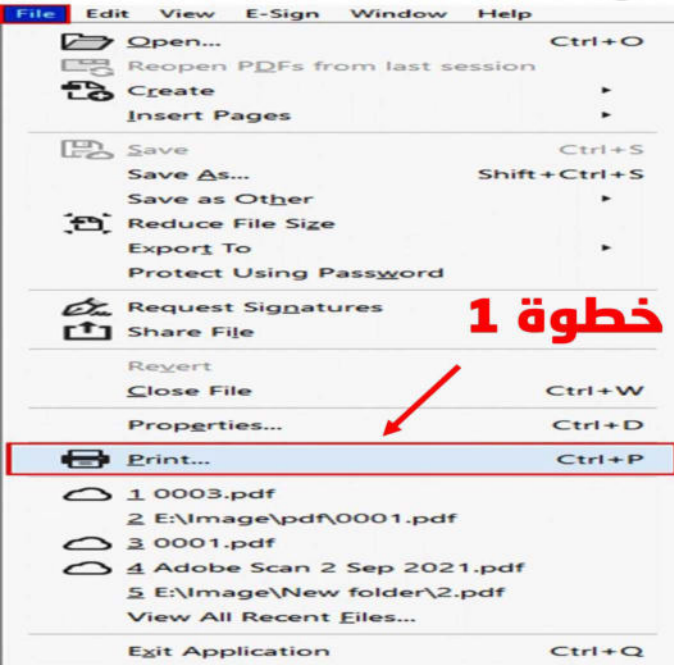
4. Using the following set of data : 2 , 9 , 6 , 9 , 4 , 9 and 8 to find :

[Cairo 24]

A. The range _____

B. The mode _____

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



حمل الآن

مجاناً وحصرياً

المراجعة رقم (2)

الترم الاول



Final Revision



First: Choose the correct answer:

- 1 Any number can be divided by another if the remainder of the division operation is (1 or 2 or 3 or 0)
- 2 All even numbers are divisible by (2 or 3 or 5 or 6)
- 3 A number is divisible by 3 if the sum of its digits is a multiple of (2 or 3 or 5 or 6)
- 4 A number is divisible by 4 if the Ones and Tens digits of the number are divisible by (1 or 2 or 3 or 4)
- 5 If the Ones digit of a number is 0 or 5, then the number is divisible by (2 or 3 or 4 or 5)
- 6 26 is divisible by (2 or 3 or 4 or 6)
- 7 is divisible by 3. (133 or 236 or 304 or 213)
- 8 The smallest number that is divisible by 2 and 3 is (5 or 6 or 8 or 9)
- 9 The smallest number that is divisible by 2 and 5 is (10 or 2 or 5 or 7)
- 10 The smallest 2-digit number that is divisible by 6 is (18 or 24 or 12 or 30)
- 11 30 is divisible by 6 because $6 \times \dots = 30$. (3 or 5 or 4 or 6)
- 12 The number 4,101 is divisible by (2 or 3 or 4 or 5)
- 13 is divisible by 2 and 3. (23 or 18 or 8 or 21)
- 14 The number 108 is divisible by the two prime numbers 3 and (2 or 5 or 7 or 11)
- 15 The smallest number that could be added to 72 to make it divisible by 5 is (1 or 2 or 3 or 4)

- 16 The smallest number that could be added to 36 to make it divisible by 10 is (1 or 2 or 3 or 4)
- 17 The smallest number that could be added to 83 to make it divisible by 3 is (1 or 2 or 3 or 4)
- 18 is a factor of all numbers. (0 or 1 or 2 or 3)
- 19 The prime factors of 12 are
(2 x 6 or 3 x 4 or 2 x 2 x 3 or 1 x 12)
- 20 The LCM of any two prime numbers is
(0 or 1 or their sum or their product)
- 21 The LCM of a relatively prime number is
(0 or 1 or its sum or its product)
- 22 The GCF of the numbers 4 and 15 is (0 or 1 or 4 or 5)
- 23 The numbers 6 and are relatively prime numbers.
(4 or 15 or 35 or 20)
- 24 is a prime number. (55 or 11 or 22 or 33)
- 25 The numbers 0, 6, 8, and 2 are numbers.
(even or odd or prime or composite)
- 26 The prime factors of 20 are
(2 x 10 or 5 x 4 or 2 x 2 x 5 or 1 x 20)
- 27 The GCF of any two prime numbers is
(0 or 1 or their sum or their product)
- 28 If the prime factors of a number are $2 \times 3 \times 3$, then the number is
(18 or 9 or 11 or 233)
- 29 The LCM of the numbers 8 and 5 is (8 or 5 or 13 or 40)
- 30 The GCF of a number whose prime factors are 2×5 and a number whose factors are 3×7 is
(0 or 10 or 1 or 210)

Final Revision

- 31 $6 \times (7 + 5) = \dots\dots\dots$
 $((6 \times 7) + (6 \times 5))$ or $6 \times 7 + 5$ or $6 \times 7 \times 5$ or $(6 + 7) \times (6 + 5)$
- 32 $(2 \times 8) + (2 \times 3) = \dots\dots\dots$
 $(2 \times 8 \times 3)$ or $2 + (8 \times 3)$ or $2 \times (8 + 3)$ or $2 \times 8 \times 2 \times 3$
- 33 $1\frac{3}{4} + 2\frac{1}{2} = \dots\dots\dots$ $(4\frac{1}{4})$ or $3\frac{1}{4}$ or $3\frac{4}{6}$ or 4
- 34 The number -3 is located to the right of the number $\dots\dots\dots$ on the number line.
 (-4) or 4 or -2 or 2
- 35 The number that comes just before $\dots\dots\dots$ is -1 . (-2) or 2 or 0 or 1
- 36 $-9 > \dots\dots\dots$ (-15) or 8 or -8 or 10
- 37 The opposite of -12 is $\dots\dots\dots$. (-12) or 12 or 1 or 2
- 38 The number $\dots\dots\dots$ is neither a positive nor a negative number.
 (0) or 1 or -1 or 10
- 39 The opposite of $5 > \dots\dots\dots$. (-4) or 4 or -6 or 6
- 40 The largest negative integer is $\dots\dots\dots$. (-1) or 1 or -100 or 0
- 41 The largest non-positive integer is $\dots\dots\dots$. (-1) or 1 or -100 or 0
- 42 All negative numbers are $\dots\dots\dots$ zero.
 (greater than) or less than or equal to
- 43 All positive numbers are $\dots\dots\dots$ zero.
 (greater than) or less than or equal to
- 44 The integer that expresses the depth of a well of 5 meters is $\dots\dots\dots$.
 (-5) or 5 or -10 or 10
- 45 The set of counting numbers $\dots\dots\dots$ the set of natural numbers.
 (belongs to) or $\text{does not belong to}$ or is a subset of or $\text{is not a subset of}$
- 46 An integer between the numbers 2 and -2 is $\dots\dots\dots$.
 (-1) or -3 or 3 or -4
- 47 The number that comes just after -9 is $\dots\dots\dots$. (-10) or -8 or 10 or 8

48 $-25 \square -12$ ($>$ or $=$ or $<$)

49 $6 < \dots\dots\dots$ (-8 or 8 or -9 or -7)

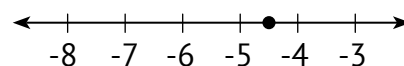
50 -2.5 belongs to the set of $\dots\dots\dots$.

(counting numbers or natural numbers or integers or rational numbers)

51 5 does not belong to the set of $\dots\dots\dots$.

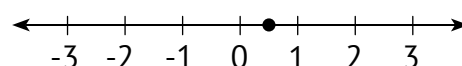
(counting numbers or natural numbers or integers or even numbers)

52 The rational number represented on the opposite number line is $\dots\dots\dots$.



($4\frac{2}{3}$ or $5\frac{2}{3}$ or $-4\frac{2}{3}$ or $-5\frac{2}{3}$)

53 The rational number represented on the opposite number line is $\dots\dots\dots$.



(0.5 or -0.5 or 1.5 or -1.5)

54 0 belongs to the set of $\dots\dots\dots$.

(counting numbers or natural numbers or negative integers or odd numbers)

55 The opposite of $\frac{3}{4}$ is $\dots\dots\dots$. ($-\frac{3}{4}$ or $-\frac{4}{3}$ or $\frac{4}{3}$ or $1\frac{1}{3}$)

56 The number -6 in the form $\frac{a}{b}$ is $\dots\dots\dots$. ($-\frac{1}{6}$ or $-\frac{6}{1}$ or $\frac{1}{6}$ or $\frac{6}{1}$)

57 $\frac{3}{4} \square -\frac{5}{3}$ ($>$ or $=$ or $<$)

58 $-\frac{7}{4} > \dots\dots\dots$ ($\frac{7}{4}$ or $-1\frac{3}{4}$ or $\frac{8}{4}$ or $-\frac{8}{4}$)

59 -2 belongs to the set of $\dots\dots\dots$.

(counting numbers or natural numbers or negative integers or odd numbers)

60 All integers are $\dots\dots\dots$ numbers. (counting or natural or even or rational)

61 The additive inverse of -5 is $\dots\dots\dots$. ($\frac{1}{5}$ or $-\frac{1}{5}$ or -5 or 5)

62 The rational number $-2\frac{3}{5}$ is between the two whole numbers $\dots\dots\dots$.

(-1 or -2 and -3 or -3 and 1 or 2 and 2 or 3)

Final Revision

- 63 - 7 is to the right of the number on the number line.
(-8 or 8 or -6 or 6)
- 64 $|-3.7| =$ (3.7 or - 3.7 or 37 or - 37)
- 65 The absolute value of zero is (10 or 0 or -1 or 1)
- 66 The absolute value of 2.7 is (- 2.7 or 2.7 or 27 or -27)
- 67 The larger the absolute value, the the number is from zero.
(closer or farther or equal to)
- 68 In the algebraic term $\frac{3}{8}x$, the variable is
(x or 8 or 3 or $\frac{3}{8}$)
- 69 Like terms for the algebraic expression $5 + 5y + 2y$ are
(5 and $5y$ or $5y$ and $2y$ or 5 and $2y$ or 5, $5y$, and $2y$)
- 70 In the algebraic expression $3y + 9$, the constant is
(9 or 3 or y or $3y$)
- 71 If the height of a school building is m meters and the height of a tree adjacent to this building is 10 meters less than it, then the height of the tree is meters.
($m + 10$ or $m - 10$ or $10m$ or $\frac{m}{10}$)
- 72 Ahmed and Tamer have 60 pounds. If Ahmed has x pounds, then Tamer has pounds.
($60 + x$ or $60 - x$ or $60x$ or $60 \div x$)
- 73 If we subtract 5 from the number x , the result is
($x + 5$ or $x - 5$ or $5 - x$ or $5x$)
- 74 Zyad saved up x pounds and his father gave him 10 pounds. Now he has
($x - 10$ or $x + 10$ or $10x$ or $10 - x$)
- 75 The algebraic expression representing “subtracting 3 from twice the number x ” is
($x - 3$ or $2x - 3$ or $3x + 2$ or $5x$)

- 76 The algebraic expression representing "half the difference between the number **a** and 7" is

$$\left(\frac{1}{2} a - 7 \text{ or } \frac{1}{2} a + 7 \text{ or } \frac{1}{2} (a - 7) \text{ or } \frac{1}{2} (a + 7) \right)$$

- 77 Bassem is **x** years old now. How old will he be 5 years later?

$$(x - 5 \text{ or } x + 5 \text{ or } 5 \div x \text{ or } 5x)$$

- 78 Which of the following operations expresses the mathematical expression 'double the number plus 4'? $(+, -, \text{ or } \times, - \text{ or } \times, + \text{ or } \times, \div)$

- 79 A square of side length **s** cm has a perimeter of cm.

$$(s + 4 \text{ or } s \times 4 \text{ or } \frac{s}{4} \text{ or } 4 - s)$$

- 80 If the price of one book is 15 pounds, how much is the price of **b** number of books?

$$(15b \text{ or } 15 - b \text{ or } b - 15 \text{ or } b + 15)$$

81 $4^2 =$

$$(4 \times 2 \text{ or } 4 \times 4 \text{ or } 4 + 2 \text{ or } 4 + 4)$$

82 $3^0 =$

$$(3 \text{ or } 0 \text{ or } 1 \text{ or } 3 \times 0)$$

83 $1^5 =$

$$(1 \times 5 \text{ or } 1 + 5 \text{ or } 1 \text{ or } 0)$$

84 $2 \times 2 \times 2 \times 2 \times 2 =$

$$(2^5 \text{ or } 5^2 \text{ or } 2 \times 5 \text{ or } 2 + 5)$$

85 $4^{\dots\dots\dots} = 1$

$$(0 \text{ or } 1 \text{ or } 2 \text{ or } 5)$$

86 $2^4 \square 4^2$

$$(< \text{ or } = \text{ or } > \text{ or } \geq)$$

87 $6^0 \square 0^6$

$$(< \text{ or } = \text{ or } > \text{ or } \geq)$$

88 $5 \times 3 + 2^2 =$

$$(35 \text{ or } 19 \text{ or } 51 \text{ or } 17)$$

89 $3^2 + 3^2 + 3^2 =$

$$(3^6 \text{ or } 9^2 \text{ or } 3^3 \text{ or } 9^6)$$

- 90 If the price of one shirt is 120 Egyptian pounds, then the price of **m** number of shirts is

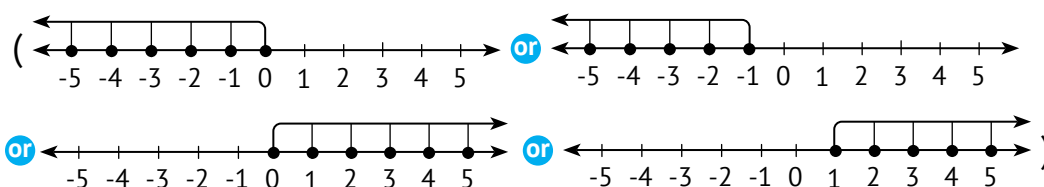
$$(120m \text{ or } 120 \div m \text{ or } 120 + m \text{ or } 120 - m)$$

- 91 If Hanan saves **d** pounds daily for 5 days, and her father gives her 20 pounds, the amount that Hanan has now is

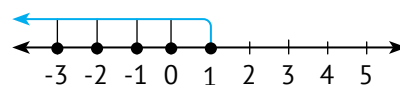
$$(5 + 20d \text{ or } 20 - 5d \text{ or } 5d + 20 \text{ or } 5 \times (d + 20))$$

Final Revision

- 92 The value of the expression $a^2 + 2 \times 3$ when $a = 3$ is
 (15 or 33 or 12 or 24)
- 93 If $b = 6$, then $b - \dots = 4$.
 (10 or 4 or 2 or 6)
- 94 If $5x = 40$, then $x = \dots$.
 (35 or 45 or 8 or 200)
- 95 If $y = 6$, then $\frac{y}{\dots} = 2$.
 (3 or 8 or 12 or 4)
- 96 The inequality that represents all values greater than -1 is
 ($x > -1$ or $x < -1$ or $x \leq -1$ or $x \geq -1$)
- 97 All numbers less than 7 can be written as
 ($n \leq 7$ or $n \geq 7$ or $n < 7$ or $n > 7$)
- 98 The inequality that represents all values to the left of 5 on a number line is
 ($x > 5$ or $x < 5$ or $x \leq 5$ or $x \geq 5$)
- 99 The figure representing the equation " $x < 0$ " is

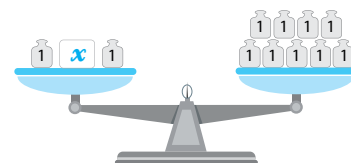


- 100 The inequality that represents the opposite model is



- 101 The equation that represents the opposite model is

($x + 2 = 9$ or $2x = 9$ or $x - 2 = 9$ or $x + 2 = 9$)



- 102 The inequality that represents all values less than or equal to -7 is
 ($x > -7$ or $x < -7$ or $x \leq -7$ or $x \geq -7$)
- 103 Which of the following values is a solution to the inequality ' $x < 9$ '?
 (10 or 9.1 or -9.5 or 9)

- 104 Which of the following values is a solution to the inequality $x \geq 5$?
(-5 or 4.59 or -25 or 6)
- 105 The inequality that represents all negative numbers is
($x > 0$ or $x < 0$ or $x \leq 0$ or $x \geq 0$)
- 106 In $u = 3 \div w$, the independent variable is
(w or u or 3 or $w / 3$)
- 107 In $a = 5d$, the dependent variable is (5 or a or d or $5d$)
- 108 If the amount of fuel consumed by the car depends on the distance traveled, then the independent variable is the
(fuel amount or distance traveled or traveled time or temperature)
- 109 If the dependent variable is the student's score in the exam, then the independent variable is
(the type of pen used in the solution or the age of the student or the number of correct answers or the number of questions in the exam)
- 110 The equation that expresses the rule "subtract from 9" is
($y = x - 9$ or $y = 9 - x$ or $y - x = 9$ or $y = 9x$)
- 111 The rule that represents the equation $y = \frac{1}{3}x$ is:
(Divide by 3 or Multiply by 3 or Divide by $\frac{1}{3}$ or Subtract $\frac{1}{3}$)
- 112 The rule that represents the equation $y = (x - 3) \div 2$ is:
(Divide by 2, then subtract 3 or Subtract 3, then divide by 2 or Divide by 3, then subtract 2 or Subtract 2, then divide by 3)
- 113 If $y = 6x + 4$, for $x = 3$, then $y =$ (10 or 22 or 18 or 67)
- 114 A statistical question
(results in a lot of different answers or has an answer of yes or no or has one answer or has an answer of one number)

Final Revision

- 115 are categorical data.
(Dates of birth or Ages or Weights or Favorite colors)
- 116 are numerical data.
(Preferred colors or Blood groups or Birthplaces or Ages)
- 117 All the following data are categorical, except
(favorite foods or occupations or weights or eye colors)
- 118 All the following are numerical data, except
(types of pets or test scores or ages or number of pets)
- 119 The horizontal axis includes numerical periods in the
(dot plot or bar graph or double bar graph or histogram)
- 120 do not have a vertical axis.
(Dot plots or Bar graphs or Double bar graphs or Histograms)
- 121 use separate columns to represent the data.
(Dot plots or Bar graphs or Double bar graphs or Histograms)
- 122 have horizontal axes.
(Bar graphs or Double bar graphs or Histograms or All the previous)
- 123 In dot plots,
(columns are used to represent data or
there is no need for a horizontal axis or each information is represented
by a point or data is displayed grouped in intervals)
- 124 In bar graphs,
(each bar represents a number or one category or
we do not need a vertical axis or the bars must touch or
each piece of information is represented by a dot)
- 125 In histograms,
(we do not need a vertical axis or the columns must touch or data is
shown above the number line or all bars are evenly spaced)

- 126 In bar graphs and histograms,
 (bars are used to represent data or each bar represents an interval or
 each bar represents one number or
 the data is shown above the number line)
- 127 In, there is a graduated scale for the vertical axis.
 (dot plots only or bar graphs only or histograms only or
 bar graphs and histograms)
- 128 may be used to display numerical data.
 (Dot plots or Bar graphs or Histograms or All the previous)
- 129 The best graph to represent the number of pupils whose height ranges from 150 to 160 cm is a
 (dot plot or bar graph or histogram)
- 130 have two axes, horizontal and vertical.
 (Bar graphs or Double bar graphs or Histograms or All the previous)
- 131 A bar graph
 (can display numerical and categorical data or
 can display only numerical data or can display only categorical data)
- 132 The mean of the values 45, 15, 40, 70, and 80 is
 (40 or 45 or 50 or 60)
- 133 If the mean of the values 12, 15, x , and 8 is 10, then the value of x is
 (40 or 5 or 20 or 10)
- 134 If the sum of 8 values equals 48, then the mean of these values is
 (40 or 56 or 24 or 6)
- 135 If the sum of a set of values is 36 and the mean of these values is 6, then the number of these values is (6 or 42 or 30 or 216)
- 136 The median of the values 4, 9, 7, 1, 1, and 2 is
 (4 or 2 or 3 or 24)

Final Revision

137 If the mean of Manal and Siham's ages is 7 years, and Manal's age is 8 years, then Siham's age is years. (6 or 7 or 8 or 15)

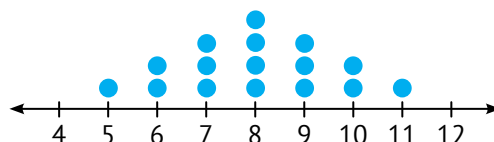
138 The values 5, 3, 2, 5, 2, and 7 have
(no mode or one mode or two modes or three modes)

139 The correct description that applies to the opposite graph is that the mean



(increases or decreases or remains the same)

140 will be the best choice as a measure of the center in the opposite graph.

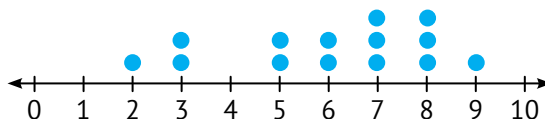


(The mean or The median or The mode or Both the mean and median)

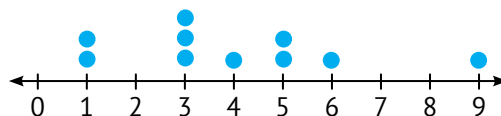
141 All the following are measures of the center, except the
(mean or median or mode or range)

142 The range cannot be found using the
(dot plot or box plot or histogram or bar chart)

143 The mean of the values represented on the opposite dot plot is (14 or 6 or 7 or 6.5)

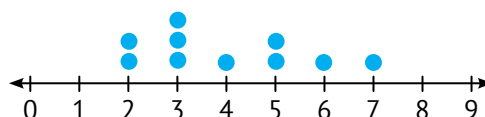


144 The median of the values represented on the opposite dot plot is



(3 or 3.5 or 4 or 4.5)

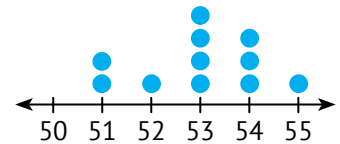
145 The range of the values represented on the opposite dot plot is



(8 or 7 or 10 or 5)

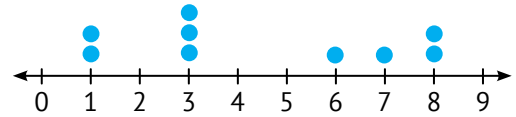
- 146 The mode of the values represented on the opposite dot plot is

(51 or 52 or 53 or 54)



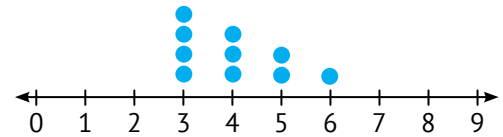
- 147 The outliers of the values represented on the opposite dot plot is

(2 or 7 or 3 or none)



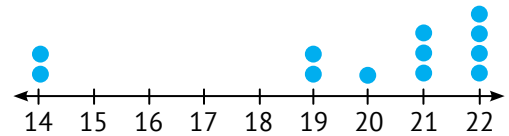
- 148 The will be the best choice as a measure of the central tendency in the opposite graph.

(mean or mode or median or range)



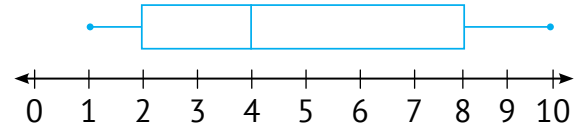
- 149 The correct description that applies on the opposite graph is that the mean

(increases or decreases or remains the same)



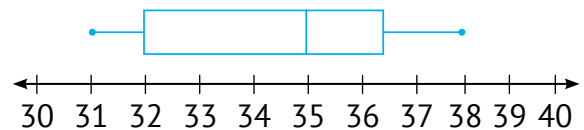
- 150 The range of the values represented on the opposite box plot is

(10 or 2 or 9 or 8)



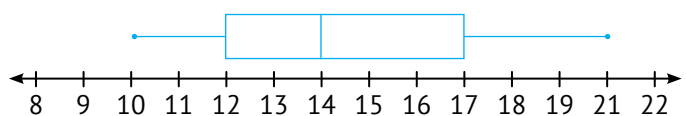
- 151 The median of the values represented on the opposite box plot is

(31 or 32 or 35 or 38)



- 152 The lower quartile of the values represented on the opposite box plot is

(10 or 12 or 14 or 17)



Final Revision

- 153 The number of integers on the number line is
(100 or 2 or infinite or 1)
- 154 data is written in the form of words.
(Numerical or Categorical or Mean or Histogram)
- 155 Eight squared is
(3^8 or 4^8 or 8^2 or 2×8)
- 156 The best subset for $\frac{1}{5}$ is the set of numbers.
(counting or integer or natural or rational)
- 157 The type of graph that represents individual data values is the
(bar graph or histogram or box plot or dot plot)
- 158 The first operation you perform in $20 \div 5 + (7 - 2)^2$ is
(adding or subtracting or exponent or dividing)
- 159 The ordered pair (0 ,) satisfies the equation $y = 3x + 4$.
(7 or 3 or 4 or 0)
- 160 All the following expressions are equivalent, except
($4x + 8$ or $2(2x + 4)$ or $4(x + 4)$ or $4(x + 2)$)

Second: Answer the following:

- 1 Murad has 340 books. Can he make sets of 5 books each without any books remaining? Why or why not?
.....
- 2 Farida made 78 string stars using jute twine. If she wants to sell them in sets of 3, will there be any stars left? Why or why not?
.....
- 3 Omar has 208 candles, which he needs to use to decorate a number of tables. If he uses 4 candles to decorate each table, will there be any candles left?
.....
.....

4 Complete using the Venn diagram:

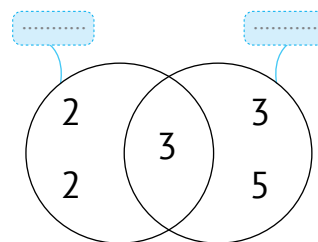
a The two numbers represented on the Venn diagram are and

b The common prime factors of the two numbers are

c The GCF of the two numbers is

d The LCM of the two numbers is

e Are the two numbers relatively prime numbers? (Yes **or** No)



5 Complete using the Venn diagram:

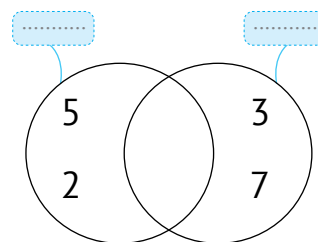
a The two numbers represented on the Venn diagram are and

b The common prime factors of the two numbers are

c The GCF of the two numbers is

d The LCM of the two numbers is

e Are the two numbers relatively prime numbers? (Yes **or** No)



6 Karim has 48 pencils and 18 crayons. What is the numerical expression for the greatest number of sets that can be made, where each set contains the same number of items?

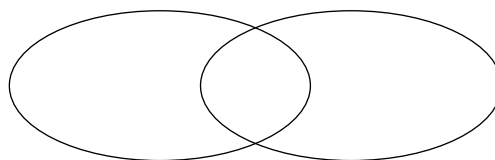
.....

7 A merchant has 16 kg of oranges and 24 kg of apples. If the merchant wants to divide the oranges and apples into bags of the same mass, write a numerical expression to determine the largest number of bags that can be made for each type of fruit.

.....

Final Revision

- 8 Find the GCF and LCM using the Venn diagram for the numbers 24 and 36.



GCF =

LCM =

- 9 Arrange the following numbers in ascending and descending orders:

8 , - 17 , $|-3|$, - 9 , $|12|$

Ascending order:

Descending order:

- 10 Find the value of the algebraic expression in each of the following:

a $4a - 15 \div 3$ [If $a = 2$]

b $(6b + 3) \div 7$ [If $b = 3$]

c $g^2 - 32 \div 8$ [If $g = 5$]

- 11 Write a mathematical expression that expresses each of the following situations:

a Bassem runs one kilometer in 15 minutes. The time that Bassam needs to run "t" km is

b Hala receives a daily wage of "p" pounds. If her expenses in 10 days amounted to 325 pounds, the amount remaining with her in 10 days is

- 12 Diaa saves 150 pounds every month from expenses. If the amount that he saves in (x) months is (y) pounds, then:

a The equation that represents this situation is

b The independent variable is

c The dependent variable is

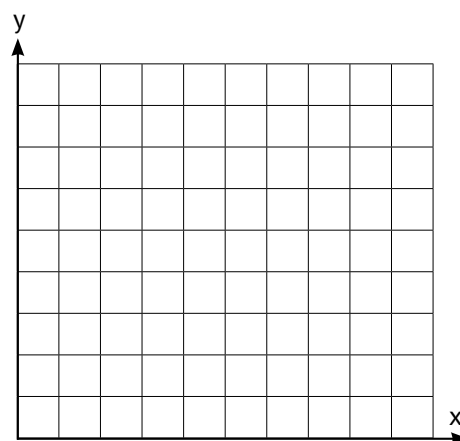
d What Diaa saves in a year is

- 13 If Hazem owns a discount card of 50 pounds, complete:
- The equation representing the relationship between Hazem's purchases amounted (x) pounds and the amount to be paid after the discount (y) pounds is
 - The independent variable is
 - The dependent variable is
 - The required amount if the purchase price before the discount is 420 pounds is

- 14 Omar manufactures hats, producing 10 hats per day. Complete the following table showing the number of working days (x) and the number of hats produced (y).

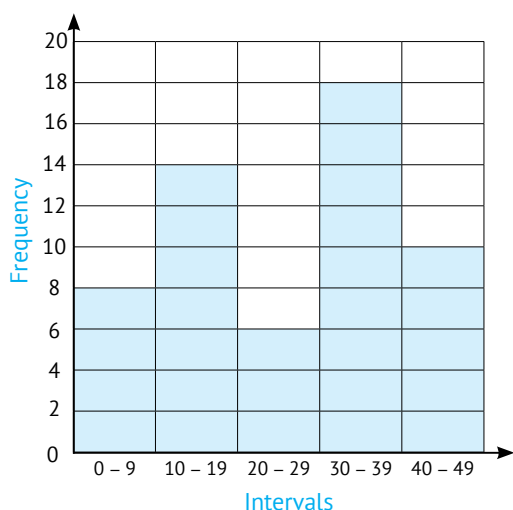
Write an equation that represents the relationship between the variables (x) and (y), and then graph it.

x	2	4	7	9
y	.....	.....	.....	.....



The equation:

- 15 Using the following histogram, complete the interval table below:



Intervals	Frequency
0 – 9	
10 – 19	
20 – 29	
30 – 39	
40 – 49	

Final Revision

- 16 Draw the box plot for each of the following groups of values:

3, 8, 7, 2, 10, 12, 9, 2, 10, 9

The order:

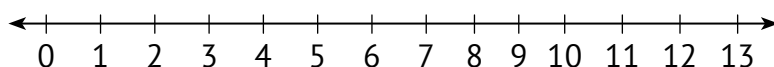
a Maximum value:

b Lower quartile:

c Median:

d Upper quartile:

e Minimum value:



- 17 Adam saves 40 pounds every month. If the amount he saves in (x) months is (y) pounds, then:

a The equation that represents this situation is

b Adam saves pounds in a year.

- 18 Use the following box plot to complete the following:



a Median =

b Maximum value =

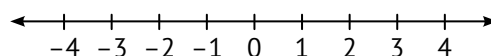
c Lower quartile =

d Upper quartile =

- 19 Name 3 solutions in the set of integers for the inequality $x > -1$.

Then graph it on the number line.

.....



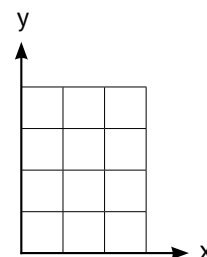
- 20 Use the order of mathematical operations to simplify: $40 + 5(3^2 - 5) - 10$

.....

.....

- 21 Complete the table, then represent the equation $y = x + 1$ graphically:

x	0	1	2
y	.....	.....	.....
(x, y)	(0, .....)	.....	.....



- 22 If $y = 2x + 1$, find the value of y , for $x = 5$.

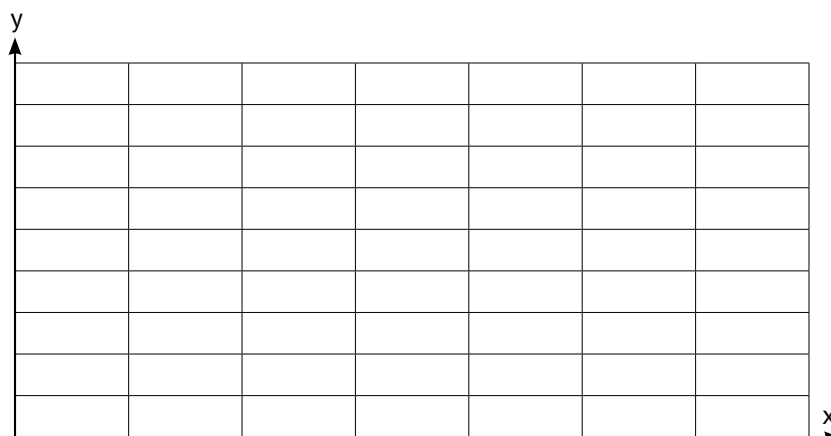
.....

.....

- 23 The following table represents the lengths of 40 students in a school.

Sets	100–109	110–119	120–129	130–139	140–149
Frequency	6	8	12	10	4

Draw the histogram for this distribution.



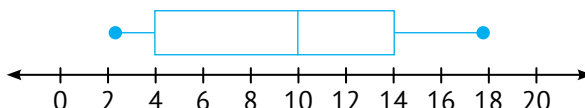
24 Complete the following:

a Write the verbal expression that represents $5y + 4$.

.....

b Write the algebraic expression that represents "a number is decreased by 2":

25 In the following box plot:



a The median =

b The range =

26 Solve the equation $x + 2 = 7$.

.....

27 Complete the following table according to the equation $y = 2x + 1$.

x	0	2	4	5
y	.....	.....	.....	.....

28 Use the following set of data: 8, 9, 6, 9, 2, 9, and 8 to find:

a The range =

b The mode =

29 Evaluate the expression $7 + 6(x^2 - 3)$, for $x = 2$.

.....

.....

- 30 Check the following expressions to see if each pair is equivalent or not.

Use two values for x .

a $x + 5$ and $3(x + 2) - 2x - 1$

b $3 + 2x$ and $3 + 2(x + 3)$

a	$x + 5$	$3(x + 2) - 2x - 1$	Equal or Not
If $x =$			
If $x =$			

The two expressions are

b	$3 + 2x$	$3 + 2(x + 2)$	Equal or Not
If $x =$			
If $x =$			

The two expressions are

Final Revision

Guide Answers

First

- | | | |
|----------------------------------|-----------------------|--------------------|
| 1 0 | 2 2 | 3 3 |
| 4 4 | 5 5 | 6 2 |
| 7 213 | 8 6 | 9 10 |
| 10 12 | 11 5 | 12 3 |
| 13 18 | 14 2 | 15 3 |
| 16 4 | 17 1 | 18 1 |
| 19 $2 \times 2 \times 3$ | 20 their product | |
| 21 its product | 22 1 | 23 35 |
| 24 11 | 25 even | |
| 26 $2 \times 2 \times 5$ | 27 1 | 28 18 |
| 29 40 | 30 1 | |
| 31 $(6 \times 7) + (6 \times 5)$ | 32 $2 \times (8 + 3)$ | 33 $4 \frac{1}{4}$ |
| 34 -4 | 35 -2 | 36 -15 |
| 37 12 | 38 0 | 39 -6 |
| 40 -1 | 41 0 | |
| 42 less than | 43 greater than | 44 -5 |
| 45 is a subset of | 46 -1 | 47 -8 |
| 48 < | 49 8 | |
| 50 rational numbers | 51 even numbers | |
| 52 $-4 \frac{2}{3}$ | 53 0.5 | |
| 54 natural numbers | 55 $-\frac{3}{4}$ | 56 $-\frac{6}{1}$ |
| 57 > | 58 $-\frac{8}{4}$ | |
| 59 negative integers | 60 rational | 61 5 |
| 62 -2, -3 | 63 -8 | 64 3.7 |
| 65 0 | 66 2.7 | |
| 67 farther | 68 X | |
| 69 5y, 2y | 70 9 | |
| 71 $m - 10$ | 72 $60 - x$ | 73 $x - 5$ |
| 74 $x + 10$ | 75 $2x - 3$ | |
| 76 $\frac{1}{2}(a - 7)$ | 77 $x + 5$ | 78 $X, +$ |
| 79 $S \times 4$ | 80 15b | 81 4×4 |
| 82 1 | 83 1 | 84 2^5 |
| 85 0 | 86 = | 87 > |
| 88 19 | 89 3^3 | |
| 90 120m | 91 $5d + 20$ | 92 15 |
| 93 2 | 94 8 | 95 3 |
| 96 $X > -1$ | 97 $n > 7$ | |
| 98 $X < 5$ | 99 Second model | |

- | | | |
|--|----------------------|----------------|
| 100 $X < 2$ | 101 $X + 2 = 9$ | |
| 102 $X \leq -7$ | 103 -9.5 | 104 6 |
| 105 $X < 0$ | 106 W | 107 a |
| 108 distance traveled | | |
| 109 the number of correct answers | | |
| 110 $Y = 9 - x$ | 111 Divide by 3 | |
| 112 Subtract 3, then divide by 2 | 113 22 | |
| 114 results in a lot of different answers | | |
| 115 Favorite colors | 116 Ages | |
| 117 weights | 118 type of pets | |
| 119 histogram | 120 Dot plots | |
| 121 Bar graphs | 122 All the previous | |
| 123 each information is represented by a point | | |
| 124 each bar represents a number or one category | | |
| 125 the columns must touch | | |
| 126 bars are used to represent data | | |
| 127 bar graphs and histograms | | |
| 128 All the previous | 129 histogram | |
| 130 All the previous | | |
| 131 can display numerical and categorical data | | |
| 132 50 | 133 5 | 134 6 |
| 135 6 | 136 3 | 137 6 |
| 138 two modes | 139 increases | |
| 140 Both the mean and median | | |
| 141 range | 142 histogram | 143 6 |
| 144 3.5 | 145 5 | 146 53 |
| 147 none | 148 median | |
| 149 decreases | 150 9 | 151 35 |
| 152 12 | 153 infinite | |
| 154 Category | 155 8^2 | |
| 156 rational | 157 bar graph | |
| 158 subtracting | 159 4 | 160 $4(x + 4)$ |

Second

- Yes, he can because 340 is divisible by 5.
- No, there are no jutes left because 78 is divisible by 3.
- No, there are no candles left because 208 is divisible by 4.

4 a 12, 45 b 3 c 3

d 180 e No

5 a 10, 21 b none c 1

d 210 e Yes

6 $6(8 + 3) = (6 \times 8) + (6 \times 3)$

7 $8(2 + 3) = (8 \times 2) + (8 \times 3)$

8 GCF = 12 LCM = 72

9 Ascending order: $-17, -9, |-3|, 8, |12|$

Descending order: $|12|, 8, |-3|, -9, -17$

10 a 3 b 3 c 21

11 a $15t$ b $10p - 325$

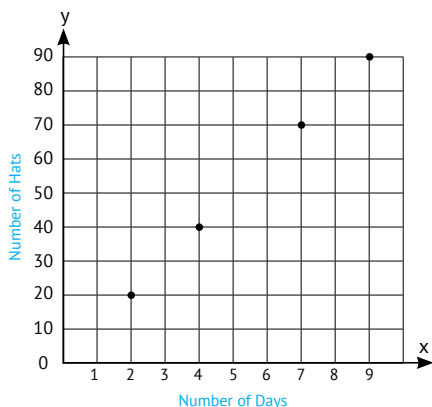
12 a $y = 150x$ b x c y

d 1,800

13 a $y = x - 50$ b x c y

d 370

14 20, 40, 70, 90, $y = 10x$

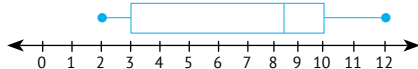


15 8, 14, 6, 18, 10

16 The order: 2, 2, 3, 7, 8, 9, 9, 10, 10, 12

a 12 b 3 c 8.5

d 10 e 2

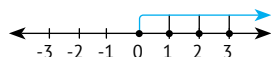


17 a $y = 40x$ b 480

18 a 55 b 80 c 45

d 75

19 0, 1, 2



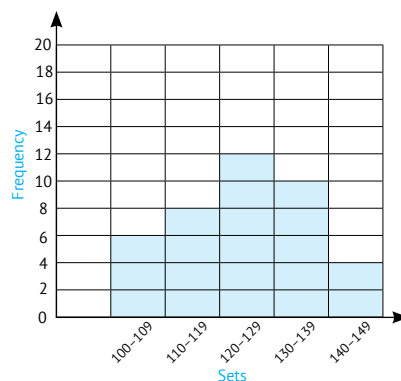
20 50

21 $y: 1, 2, 3$

$(x, y): (0, 1), (1, 2), (2, 3)$

22 11

23



24 a 5 times y added to 4.

b $x - 2$

25 a Median = 10 b Range = $18 - 2 = 16$

26 $X = 5$

27 1, 5, 9, 11

28 a Range = $9 - 2 = 7$

b Mode = 9

29 13

30 a equivalent

b not equivalent

حمل الآن

مجاناً وحصرياً

المراجعة رقم (3)

الترم الاول





First term Questions Bank



Question 01

Choose the correct answer

- 1 Take away double the number m from 20 is written as
 - a $20 - m$
 - b $m - 20$
 - c $2m - 20$
 - d $20 - 2m$
- 2 The volume of the cube of edge length 4 cm is cm^3
 - a 12×4
 - b $4 + 4 + 4$
 - c 4^3
 - d 3^4
- 3 $3 \times 3 \times 3 \times 3 \times 3 = \dots\dots\dots$
 - a 3×5
 - b $3 + 3 + 3 + 3 + 3$
 - c 3^5
 - d 5^3
- 4 $3 + 3 + 3 + 3 + 3 = \dots\dots\dots$
 - a 3×5
 - b $3 \times 3 \times 3 \times 3 \times 3$
 - c 3^5
 - d 5^3
- 5 The value of the expression $5m \div 3$ for $m = 6$ is
 - a 3
 - b 5
 - c 6
 - d 10
- 6 The first operation you perform in the expression $6 + (5^3 - 4) \div 2$ is
 - a add
 - b Subtract
 - c exponent
 - d Divide
- 7 The first operation you perform in the expression $6 + 5^3 - (4 \div 2)$ is
 - a add
 - b Subtract
 - c exponent
 - d Divide
- 9 Seven cubed added to six squared equals
 - a $7 \times 3 + 6 \times 2$
 - b $6^2 + 7^3$
 - c $6^2 - 7^3$
 - d $2^6 + 3^7$
- 10 Rozana saved x pounds . Mr Mahmoud Elkholy gave her 20 pounds , then she havepounds now .
 - a $x - 20$
 - b 45
 - c $x + 20$
 - d $20x$
- 11 If $x + 5 = 8$, then $3x = \dots\dots\dots$
 - a 3
 - b 5
 - c 9
 - d 15
- 12 A number if added to 5 the result is 17 , then the number is
 - a 12
 - b 22
 - c 5
 - d 17
- 13is a solution of the inequality $d > 15$
 - a 15
 - b 12
 - c 20
 - d All of them



- 14is a solution of the inequality $d \geq 15$
 (a) 15 (b) 16 (c) 20 (d) All of them
- 15 The mode of 7, 9, 7, 8, 7, 6, 7 and 10 is.....
 (a) 7 (b) 8 (c) 9 (d) 10
- 16 All the dot plots have the following characteristics except
 (a) dot plot should have titles (b) dot plots should have data graphed above a number line
 (c) the number lines in dot plots should start at 0 (d) each individual piece of data can be seen on a dot plot and is represented by a dot.
- 17 A has two axes, horizontal and vertical.
 (a) bar graph (b) histogram (c) double bar graph (d) all of them
- 18 The question : what are the students favourite colours? Is a..... question
 (a) statistical (b) non-statistical (c) numerical data (d) All of them
- 19 The range = the greatest value..... the smallest values.
 (a) + (b) - (c) $\div$ (d) $\times$
- 20 The best subset for the number 5 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 21 The best subset for the number 5.2 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 22 The Set of counting numbers The set of rational numbers
 (a) Belong (b) not belong (c) subset (d) Not subset
- 23 The Set of integers The set of natural numbers
 (a) Belong (b) not belong (c) subset (d) Not subset
- 24 -5 The set of rational numbers
 (a) Belong (b) not belong (c) subset (d) Not subset
- 25 r is 9 times p added to twice m in the equation is.....
 (a) $r = 9p + m$ (b) $r = 2m + 9p$ (c) $9r = p + 2m$ (d) $r + m = 9p$
- 26 In the equation : $y = x + 1$, if the output is 1, then the input is....
 (a) 1 (b) 3 (c) 2 (d) 0



- 27 The order pair which satisfies the rule : $y = 3x + 1$ is.....
 (a) $(0, 0)$ (b) $(0, 4)$ (c) $(-1, 1)$ (d) $(1, 4)$
- 28 which of the following data set hasn't any outlier?
 (a) 103,104,105,103,102,17 (b) 24,25,26,21,22,23,204
 (c) 300, 309,302,303,305,306,308 (d) 4,211,212,213,214,215,1000
- 29 Youssef eat at least 3 oranges , then Youssef may eatoranges
 (a) 3 (b) 5 (c) 12 (d) All of them
- 30 Layan has 25 pounds and Maya has more money than Layan , then Maya may haspounds .
 (a) 25 (b) 20 (c) 100 (d) All of them
- 31 Zyad has 16 candies and Kareem has less candies than Zyad , then Kareem may hascandies .
 (a) 100 (b) 16 (c) 10 (d) All of them
- 32 Jana bought 6 SPIRO SPATHIS and Mohamed bought same number or more ,then Mohamed may bought SPIRO SPATHIS .
 (a) 6 (b) 12 (c) 100 (d) All of them
- 33 All of the following are solutions of inequality $x \leq -8$ except
 (a) -8 (b) -10 (c) -7 (d) All of them
- 34 In the equation : $5x + 2 = y$, the independent variable is
 (a) 5 (b) 2 (c) x (d) y
- 35 In the equation : $b = \frac{1}{2}f + 3$, the dependent variable is
 (a) 5 (b) 2 (c) f (d) b
- 36 The GCF of any two different prime numbers is
 (a) 0 (b) 1 (c) itself (d) The smallest number
- 37 $\frac{3}{6} + \frac{1}{2} = \dots\dots\dots$
 (a) $\frac{1}{2}$ (b) $\frac{3}{6}$ (c) 1 (d) $\frac{4}{8}$
- 38 Which of the following is an equation ?
 (a) $3n + 7$ (b) 7 times the number h (c) $3c = 3$ (d) $6e - 7$
- 39 $(2, m)$ satisfies the rule $y = 3x - 2$, then $m = \dots\dots\dots$
 (a) 1 (b) 2 (c) 3 (d) 4



- 40 In the equation : $y = 2x + 10$, the ordered pair $(3, n)$ satisfies the equation , then $n =$
- a 2 b 10 c 16 d 30
- 41 " Y is 6 times h added to 12 " in equation is
- a $12 = y + 6h$ b $Y = 12h + 6$ c $H = 6y + 12$ d $Y = 6h + 12$
- 42 $(\dots\dots, \dots\dots)$ is called the origin .
- a $(1, 1)$ b $(0, 1)$ c $(0, 0)$ d $(1, 0)$
- 43 The greatest negative integer is
- a 1 b -1 c 0 d -1000,000
- 44 $\frac{3}{7} + \frac{2}{5} =$
- a $\frac{5}{12}$ b $\frac{29}{35}$ c $\frac{1}{2}$ d 1
- 47 $3(5 + 4) = (3 \times \dots\dots) + (\dots\dots \times 4)$
- a 5,3 b 5,4 c 3,5 d 3,4
- 48 In the equation the : $y = 2x + 3$, the ordered pair $(2, a)$ satisfies the equation then, $a =$
- a 5 b 8 c 7 d 9
- 49 The median of the value 4, 7, 8, 1 and 3 is
- a 3 b 1 c 4 d 7
- 50 The median of $B + 1, B + 2, B + 3$ is 10, then $B =$
- a 1 b 3 c 2 d 8
- 51 If the upper quartile of the values : $m + 1, m + 2, m + 3, m + 4, k + 5$, where m is a positive integer is 16.5, then $m =$
- a 7 b 8 c 12 d 10
- 52 All the following are numerical data except.....
- a names b ages c length d temperatures
- 53 The opposite of the number 15 is
- a 15 b $|15|$ c -15 d $|-15|$
- 54 The additive inverse of $|-4|$ is
- a 4 b $|4|$ c -4 d $|-4|$
- 55 In the equation : $x = 5y + 3$, the dependent variable is.....
- a $5y$ b x c y d 3



- 56 In the equation : $4a + 24 = b$, the independent variable is.....
 (a) a (b) b (c) 24 (d) 4a
- 57 "k equals the product of m and 4" in equation is.....
 (a) $k = 4m$ (b) $k = 4 + m$ (c) $m = 4k$ (d) $m = k + 4$
- 58 which of the following is an equation?
 (a) $20x + 53.2$ (b) $2 + m$ (c) $Y > 12$ (d) $5x = 20$
- 59 "30 less than f equals y" in the equation is.....
 (a) $30 - f = y$ (b) $30 + f = y$ (c) $F - 30 = y$ (d) $Y - 30 = f$
- 60 If $(4, \dots)$ satisfies the rule $y = \frac{1}{2}x + 2$
 (a) 4 (b) 10 (c) 6 (d) 2
- 61 $\frac{9}{2}$ The set of natural numbers
 (a) Belong (b) Does not belong (c) subset (d) Not subset
- 62 is categorical data.
 (a) age (b) phone number (c) weight (d) favourite TV show
- 63 is numerical data
 (a) nationality (b) Place of birth (c) Exam degree (d) name
- 64 The LCM of any two different prime numbers is
 (a) 1 (b) The product of them (c) The smallest number (d) The greatest number
- 65 The dividend in $321 \div 12 = 26 \text{ R}9$ is
 (a) 321 (b) 12 (c) 26 (d) 9
- 66 is the better measure of centre for data set with outlier values.
 (a) Median (b) Range (c) Mode (d) mean
- 67 Which of the following is nearest to zero ?
 (a) 5 (b) -1 (c) -3 (d) 3
- 68 The best subset for the number 0 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 69 Which of the following is the greatest number ?
 (a) -5.3 (b) -3.5 (c) 3.5 (d) 5.3



- 70** Which of the following is the smallest number ?
 (a) -3.2 (b) -2.3 (c) -0.5 (d) -0.01
- 71** The best subset for the number -3 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 72** The range can not be found using.....
 (a) dot plot (b) histogram (c) box plot (d) all of them
- 73** If the mean of 8, 6, x, 5 is 5, then x =
 (a) 1 (b) 2 (c) 3 (d) 4
- 74** The mean of the values "54, 32, 30, 4" is.....
 (a) 18 (b) 30 (c) 4 (d) 54
- 75** The LCM of 5 and 15 is
 (a) 5 (b) 15 (c) 1 (d) 3
- 76** The GCF of 5 and 15 is
 (a) 5 (b) 15 (c) 1 (d) 3
- 77** The common factor of all number is
 (a) 0 (b) 1 (c) 2 (d) 100
- 78** If the cost of one ticket "h" and the total cost of 5 tickets "m", Then the independent variable is.....
 (a) m (b) h (c) 5 (d) 5 h
- 79** If the cost of one ticket "h", then total cost of 5 tickets is
 (a) m (b) h (c) 5 (d) 5 h
- 80** The order pair which satisfies the equation : $y = x + 2$
 (a) (0, 2) (b) (1, 1) (c) (2, 1) (d) (1, 2)
- 81** Which of the following is numerical expression ?
 (a) $3(6d + 5)$ (b) $8 + 6$ (c) $2n - 9$ (d) $4 - h$
- 82** Which of the following is algebraic expression ?
 (a) $4(6 + 5)$ (b) $4 - 1 + 2$ (c) $20 \div 9$ (d) $3h$
- 83** The integer which comes just after -1 is
 (a) 0 (b) 1 (c) -2 (d) -1
- 84** The integer that is one less than 0 is
 (a) 0 (b) 1 (c) -2 (d) -1



- 85 All counting numbers are also
- a natural numbers b Rational numbers c Integers d All of them
- 86 $|-10| > \dots\dots\dots$
- a $|-9.99|$ b $|-90|$ c $|-100|$ d $|-15|$
- 87 $5(8 + \dots\dots) \times 7$ is a numerical expression .
- a d b $4f$ c 5 d $19 + n$
- 88 $5(8 + \dots\dots) \times 7$ is a algebraic expression .
- a 5 b $5m$ c $18 + 2$ d 13
- 89 Adding 5 to third a number =
- a $5 + 3x$ b $3x + 5$ c $\frac{1}{3}x - 5$ d $\frac{1}{3}x + 5$
- 90 The distance between -6 and its opposite on the number line is
- a 6 b -6 c 12 d -12
- 91 $|-15| = m$, then $m = \dots\dots\dots$
- a -15 b 15 c Both a,b d neither
- 92 $|-x| = 5$, then $x = \dots\dots\dots$
- a -5 b 5 c Both a,b d neither
- 93 The number of terms in the expression $6d + 2 - 5n \div 4$ is terms
- a 1 b 2 c 3 d 4
- 94 The like terms in the expression $2f + 2 - 2k - 8$ is
- a $2f, 2k$ b 2, 8 c 2, $2k$ d $2f, 2$
- 95 The constant in the expression $6d + 2 - 5n$ is
- a 6 b d c $5n$ d 2
- 96 The coefficient in the expression $6d + 2$ is
- a 6 b d c $6d$ d 2
- 97 The balance (mean) of the following data set 1, 2, 3, 4, 4, 6, 8 is.....
- a 2 b 6 c 4 d 8
- 98is another name for the mean .
- a Median b Range c Mode d Average
- 99 6 cubed =



- 100 $5^2 = \dots\dots\dots$
 (a) 6^3 (b) 3^3 (c) 6^2 (d) 3^6
- 101 $5^2 + 6 - 2^3 = \dots\dots\dots$
 (a) 2^5 (b) 5^2 (c) 2^2 (d) 5^5
- 102 If the number of chicken owned is "t" and the number of eggs collected daily is "h", then the independent variable is
 (a) t (b) h (c) x (d) Other
- 103 The lower quartile for the set of data : 5, 7, 9, 10, 12, 15, 20 is.....
 (a) 10 (b) 5 (c) 9 (d) 7
- 104 The graph shows gaps and cluster is
 (a) Box plot (b) Bar graph (c) Dot plot (d) Other
- 105 The graph shows distribution and spread is
 (a) Box plot (b) Bar graph (c) Dot plot (d) Other
- 106 The upper quartile of the values "7, 1, 6, 2, 3, 1, 9" is.....
 (a) 7 (b) 6 (c) 9 (d) 2
- 107 The median of the values "2, 7, 10, 0, 2, 5, 6, 6, 12, 1" is.....
 (a) 7 (b) 6 (c) 5 (d) 5.5
- 108 If the upper quartile of the values : $x + 14, x + 10, x + 12, x + 15, x + 16, x + 11, x + 14, x + 17$ where x is a positive integer is 18.5, then x =.....
 (a) 3 (b) 4 (c) 2 (d) 1
- 109 $5x = 20$, then $\frac{1}{2}x = \dots\dots\dots$
 (a) 5 (b) 4 (c) 20 (d) 2
- 110 $100x = 0$, then $12x = \dots\dots\dots$
 (a) 12 (b) 0 (c) 10 (d) 100
- 111 $100x = 100$, then $12x = \dots\dots\dots$
 (a) 12 (b) 0 (c) 1 (d) 100
- 112 $\frac{x}{5} = 6$, then x =
 (a) 30 (b) 6 (c) 35 (d) 11
- 113 $3n = 15$, then n =
 (a) 4 (b) 3 (c) 15 (d) 5



- 114 $X + 5.4 = 8.8$, then $x =$
- a 3.4 b 4.3 c 2.2 d 2.4
- 115 $7x = 28$, then $\frac{1}{2}x =$
- a 4 b 2 c 3 d 8
- 116 "F equals the product of m and 6" as an equation is
- a $F=6m$ b $M=6f$ c $F=m+6$ d $M=f+6$
- 117 The inequality that represent the negative integers is
- a $x \geq -1$ b $x \leq -1$ c $x > -1$ d $x < -1$
- 118 The inequality that represent the positive integers is
- a $x \geq -1$ b $x \leq -1$ c $x > -1$ d $x < -1$
- 119 The smallest natural number is
- a 0 b 1 c -1 d 2
- 120 The inequality that represent the non-negative integers is
- a $x \geq 0$ b $x \leq 0$ c $x > 0$ d $x < 0$
- 121 The inequality that represent the non-positive integers is
- a $x \geq 0$ b $x \leq 0$ c $x > 0$ d $x < 0$
- 122 The graph shows the 5-number summary is
- a Box plot b Bar graph c Dot plot d Other
- 123 "Twice x added to 7 equals y" as an algebraic equation is
- a $y = 7 + 2x$ b $y = 7 + x$ c $y = 2 + 7x$ d $y = 2(7 + x)$
- 124 " $m = 5d - 5$ " as an verbal is
- a m equals 5 times d decreased by 5 b 5 equals m times d decreased by 5 c M equals 5 times d increase by 5 d Other
- 125 In the equation : $d = \frac{5}{9}n - 8$ the dependent variable is
- a d b N c 8 d -8
- 126 The greatest non-positive integer is
- a 1 b 0 c -1 d 2
- 127 "20 more than v equals m" in equation is
- a $20-v=m$ b $V=20+m$ c $V+20=m$ d $V+m=20$



- 128 The rule is "multiply by 8". if $x = \frac{1}{4}$, then y would be
- a 2 b 8 c 4 d 1
- 129 4 more than s equals t in equation is
- a $s+4$ b $s-4$ c $4-s$ d s
- 130 The word phrase for the equation " $h = 8g$ " is
- a H equals the sum of adding g b h equals 8 times g c H more than 8 equals g d Other
- 131 The ordered pair which satisfies the rule: $y = x + 5$ is (1,)
- a 6 b 5 c 1 d 0
- 132 In the rule: $y = 4x$, if $x = 1.5$ then $y = \dots\dots$
- a 5 b 4 c 6 d 1.5
- 133 The product of 5 and a number t is
- a $5t$ b $T=5$ c $5+t$ d T
- 134 "z equals the sum of adding 12 to the product of 4 and y " the equation is
- a $Z=4+y$ b $4y=z+12$ c $z = 4y + 12$ d $Z=4y-12$
- 135 The dependent variable in the equation $a = 4b + \frac{1}{2}$ is.....
- a a b B c 4 d $\frac{1}{2}$
- 136= maximum value - minimum value
- a range b Mean c median d Other
- 137 The maximum values for the set of values "4,7,9,1,6" is.....
- a 1 b 4 c 6 d 9
- 138 The favourite colours of a number of pupils are..... data.
- a numerical b categorical c statistical d Other
- 139 If the mean of 5 values is 15, then the sum of these values is.....
- a 3 b 25 c 50 d 75
- 140 If the marks of 6 pupils in one of the tests are 29, 33, 57, 40, 36 and 49, then the range for these marks is equal to.....
- a 29 b 28 c 33 d 40
- 141 The number of integers between -5 and -1 are3.....
- a 5 b 4 c 3 d -3



- 142 The smallest counting number is
- a 0 b -1 c 1 d 2
- 143 If the price of one pen is 6 pounds , then the price of x pens is
- a $6x$ b $X=6$ c $x-6$ d $6-x$
- 144 If the price of 10 pens is x pounds , then the price of one pen is
- a $x \div 10$ b $x-10$ c $X=10$ d $X+10$
- 145 In 5^4 the base isand the exponent is
- a 5,4 b 4,5 c 4,4 d 5,5
- 146 The base is 8 and the exponent is 3 , then the exponential form of this is
- a 8^8 b 3^3 c 8^3 d 3^8
- 147 In a square the side length is x then the perimeter is and the area is
- a $4x, x^2$ b $4x, x$ c $x^2, 4x$ d X, x^2
- 148is the middle values of the data set.
- a mean b Mode c median d Outlier
- 149 The additive inverse of -6 is
- a 6 b -6 c 1 d 0
- 150 The additive inverse of 0 is
- a 3 b 2 c 1 d 0
- 151 The LCM of 5 and 7 is
- a 35 b 30 c 1 d 0
- 152 is the value that occurs most often .
- a mean b Mode c median d outlier
- 153 If 50 is the greatest number of data set and the range = 10 ,then The smallest number of this data set equals.....
- a 40 b 10 c 50 d 20
- 154 The number -2.5 in the form $\frac{a}{b}$ is
- a $-\frac{25}{100}$ b $-\frac{25}{10}$ c $\frac{25}{10}$ d $\frac{25}{100}$



- 155 The opposite of the number 50 is
- (a) 50 (b) 25 (c) -50 (d) 0
- 156 The integer which comes just before -9 is
- (a) -10 (b) -8 (c) 8 (d) 10
- 157 The GCF of 5 and 7 is
- (a) 35 (b) 1 (c) 0 (d) 30
- 158 The outlier of the following data set 91, 94, 93, 3, 90, 99 is.....
- (a) 3 (b) 91 (c) 90 (d) 99
- 159 The mode of the following set "3,4, 5,3,5,7,5,9,5,3" is.....
- (a) 4 (b) 5 (c) 3 (d) 9
- 160 The range of the set of values 6, 5, 9,4,11,3, 7 is.....
- (a) 7 (b) 6 (c) 8 (d) 9
- 161 If the range of a set of values is 12 and the smallest value is 8, then the largest values is.....
- (a) 20 (b) 12 (c) 8 (d) 4
- 162 If the sum of a group of values is 18 and the mean of these values is 3, then the number of these values is.....
- (a) 6 (b) 3 (c) 18 (d) 1
- 163 The smallest positive integer is
- (a) 0 (b) 1 (c) -1 (d) 2
- 164 The smallest non-negative integer is
- (a) 0 (b) 1 (c) -1 (d) 2

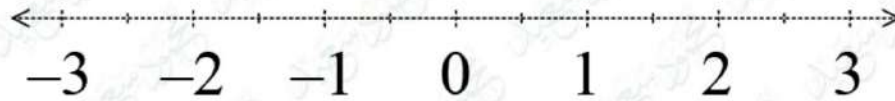
Question 02

Answer the following questions

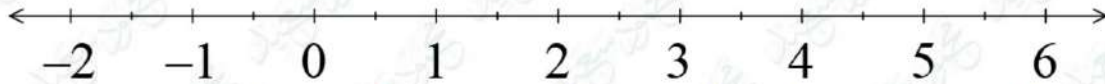
- 1 Simplify the following :
- 1) $6^2 + 2(24 - 9) \div 3$ 2) $8 - 4 \times 6 \div (5 - 3)^3$
-
- 2 Mohamed has x pounds . he bought a book for 60 pounds . write the algebraic expression of how much money with him now .
-



- 3 Represent $-2\frac{2}{5}$ on the number line .

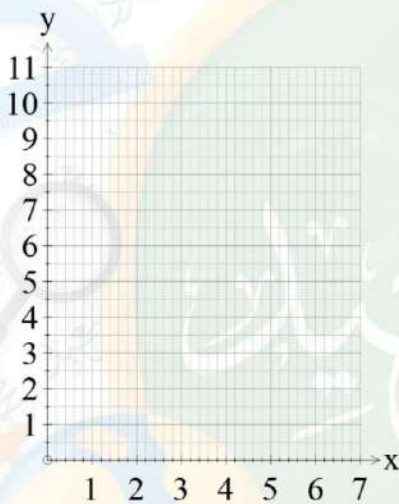


- 4 Represent $5 \geq x$ on the number line in the set of integers .



- 5 Write an equation. Use the variables x and y , where x is the independent variable .
Write the equation " add 1 and multiply by 2 " and substitute x by 1,2,3 and 4 to evaluate y .
then complete the table ,then represent the table on a graph .

Equation is :



X	1	2	3	4
y	.....	.....	.....	.....

- 6 Write a verbal phrase for each of the following :

a) $f + 10 = m$

b) $b = 5 - k$

c) $2n + 8 = a$

.....
.....

- 7 Complete the following table according to the equation : $y = 3x - 1$

X	1	3	5	7
y	.....	.....	.....	.....

- 8 Masa needed to earn at least 100 pounds daily to buy a mobile . find four possible amounts that Masa needed to earn ,then write the inequality that represented this situation .

.....

- 9 Joudy paid 3,888 pounds to buy 24 candies . find the price of each box .

.....



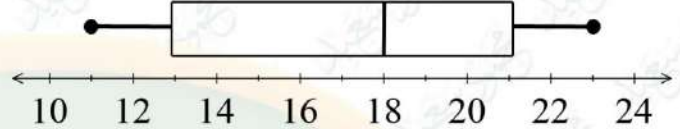
- 10 Find three rational numbers between 3.5 and 3.6
.....
- 11 Write an equation, use the variables x and y , where x is the independent and using the rule "multiply by 8", then substitute $x = \frac{1}{2}$ to evaluate y .
.....
- 12 Write each the verbal phrase as an algebraic equation :
(a) m equals twice n increased by 20
(b) y equals the product of eight and x added to 48
.....
- 13 When $m = 3$. solve $9 + (m^2 - 3) \div 2$
.....
- 14 Rodina has 30 pounds , she will save 10 pounds daily . write the algebraic expression , then evaluate how much money will she have after 1 week ?
.....
- 15 Write a verbal phrase for each of the following equation :
a) $y = 3x + 1$
b) $y + 5 = x$
c) $g = (h \div 3) + 12$
.....
- 16 Write an equation, use the variables x and y where x is the independent variable ,then evaluate y
a) The equation "multiply by 6", substitute if $x = 7$
b) The equation "multiply by 2 and add 3", substitute if $x = 2$
.....
- 17 By using the opposite dot plot find :
(a) The median
(b) The mode
(c) The range
-
-
- 18 If the number of goals registered by Al Zamalek in 6 matches are
3, 2, 6, 6, 1, 6
Calculated the mean , median and mode of the number of goals.
.....



- 19 Rahma runs 3 km on Saturday, 5 km Sunday, 4 km Monday 4 km Tuesday and 4 km Friday
Find the mean distance covered by Rahma .

- 20 from the opposite box plot, complete

- (a) The maximum value =
(b) The minimum value =
(c) the median =
(d) the lower quarter =
(e) the upper quarter =



- 21 Solve each of the following equations :

- (a) $\frac{x}{4} = 3$
(b) $12x - 5 = 7$

- 22 The value of the expression $2x^2 - (2 \times 3 + 3^2)$ for $x = 3$ is

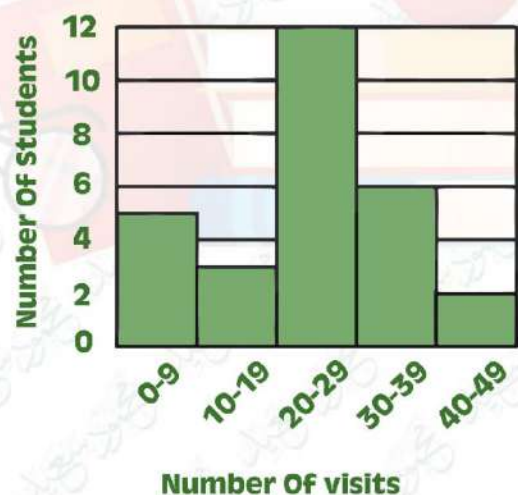
- 23 The verbal phrase for : $2m + 4 = 8$ is

- 24 from the histogram shown at the right answer the following questions .

- Which interval represents the most number of students?
- Which interval has three students?
- How many students went to a pool at least 30 times last summer?
- How many students went to a pool less than ten times last summer?

The verbal phrase for $k + 10 = 12$ is.....

Number of visits to a pool
Last summer



تم بحمد الله ،

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم





First term Questions Bank



Question 01

Choose the correct answer

- 1 Take away double the number m from 20 is written as
 (a) $20 - m$ (b) $m - 20$ (c) $2m - 20$ (d) $20 - 2m$
- 2 The volume of the cube of edge length 4 cm is cm^3
 (a) 12×4 (b) $4 + 4 + 4$ (c) 4^3 (d) 3^4
- 3 $3 \times 3 \times 3 \times 3 \times 3 =$
 (a) 3×5 (b) $3 + 3 + 3 + 3 + 3$ (c) 3^5 (d) 5^3
- 4 $3 + 3 + 3 + 3 + 3 =$
 (a) 3×5 (b) $3 \times 3 \times 3 \times 3 \times 3$ (c) 3^5 (d) 5^3
- 5 The value of the expression $5m \div 3$ for $m = 6$ is
 (a) 3 (b) 5 (c) 6 (d) 10
- 6 The first operation you perform in the expression $6 + (5^3 - 4) \div 2$ is
 (a) add (b) Subtract (c) exponent (d) Divide
- 7 The first operation you perform in the expression $6 + 5^3 - (4 \div 2)$ is
 (a) add (b) Subtract (c) exponent (d) Divide
- 9 Seven cubed added to six squared equals
 (a) $7 \times 3 + 6 \times 2$ (b) $6^2 + 7^3$ (c) $6^2 - 7^3$ (d) $2^6 + 3^7$
- 10 Rozana saved x pounds. Mr Mahmoud Elkholy gave her 20 pounds, then she havepounds now .
 (a) $x - 20$ (b) 45 (c) $x + 20$ (d) $20x$
- 11 If $x + 5 = 8$, then $3x =$
 (a) 3 (b) 5 (c) 9 (d) 15
- 12 A number if added to 5 the result is 17, then the number is
 (a) 12 (b) 22 (c) 5 (d) 17
- 13is a solution of the inequality $d > 15$
 (a) 15 (b) 12 (c) 20 (d) All of them



- 14is a solution of the inequality $d \geq 15$
 (a) 15 (b) 16 (c) 20 (d) All of them
- 15 The mode of 7, 9, 7, 8, 7, 6, 7 and 10 is.....
 (a) 7 (b) 8 (c) 9 (d) 10
- 16 All the dot plots have the following characteristics except
 (a) dot plot should have titles (b) dot plots should have data graphed above a number line
 (c) the number lines in dot plots should start at 0 (d) each individual piece of data can be seen on a dot plot and is represented by a dot.
- 17 A has two axes, horizontal and vertical.
 (a) bar graph (b) histogram (c) double bar graph (d) all of them
- 18 The question : what are the students favourite colours? Is a..... question
 (a) statistical (b) non-statistical (c) numerical data (d) All of them
- 19 The range = the greatest value..... the smallest values.
 (a) + (b) - (c) $\div$ (d) $\times$
- 20 The best subset for the number 5 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 21 The best subset for the number 5.2 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 22 The Set of counting numbers The set of rational numbers
 (a) Belong (b) not belong (c) subset (d) Not subset
- 23 The Set of integers The set of natural numbers
 (a) Belong (b) not belong (c) subset (d) Not subset
- 24 -5 The set of rational numbers
 (a) Belong (b) not belong (c) subset (d) Not subset
- 25 r is 9 times p added to twice m in the equation is.....
 (a) $r = 9p + m$ (b) $r = 2m + 9p$ (c) $9r = p + 2m$ (d) $r + m = 9p$
- 26 In the equation : $y = x + 1$, if the output is 1, then the input is....
 (a) 1 (b) 3 (c) 2 (d) 0



- 27 The order pair which satisfies the rule : $y = 3x + 1$ is....
 (a) $(0, 0)$ (b) $(0, 4)$ (c) $(-1, 1)$ (d) $(1, 4)$
- 28 which of the following data set hasn't any outlier?
 (a) 103,104,105,103,102,17 (b) 24,25,26,21,22,23,204
 (c) 300, 309,302,303,305,306,308 (d) 4,211,212,213,214,215,1000
- 29 Youssef eat at least 3 oranges , then Youssef may eatoranges
 (a) 3 (b) 5 (c) 12 (d) All of them
- 30 Layan has 25 pounds and Maya has more money than Layan , then Maya may haspounds .
 (a) 25 (b) 20 (c) 100 (d) All of them
- 31 Zyad has 16 candies and Kareem has less candies than Zyad , then Kareem may hascandies .
 (a) 100 (b) 16 (c) 10 (d) All of them
- 32 Jana bought 6 SPIRO SPATHIS and Mohamed bought same number or more ,then Mohamed may bought SPIRO SPATHIS .
 (a) 6 (b) 12 (c) 100 (d) All of them
- 33 All of the following are solutions of inequality $x \leq -8$ except
 (a) -8 (b) -10 (c) -7 (d) All of them
- 34 In the equation : $5x + 2 = y$, the independent variable is
 (a) 5 (b) 2 (c) x (d) y
- 35 In the equation : $b = \frac{1}{2}f + 3$, the dependent variable is
 (a) 5 (b) 2 (c) f (d) b
- 36 The GCF of any two different prime numbers is
 (a) 0 (b) 1 (c) itself (d) The smallest number
- 37 $\frac{3}{6} + \frac{1}{2} = \dots\dots\dots$
 (a) $\frac{1}{2}$ (b) $\frac{3}{6}$ (c) 1 (d) $\frac{4}{8}$
- 38 Which of the following is an equation ?
 (a) $3n + 7$ (b) 7 times the number h (c) $3c = 3$ (d) $6e - 7$
- 39 $(2, m)$ satisfies the rule $y = 3x - 2$, then $m = \dots\dots\dots$
 (a) 1 (b) 2 (c) 3 (d) 4



- 40 In the equation : $y = 2x + 10$, the ordered pair $(3, n)$ satisfies the equation , then $n =$
- a 2 b 10 c 16 d 30
- 41 " Y is 6 times h added to 12 " in equation is
- a $12 = y + 6h$ b $Y = 12 h + 6$ c $H = 6y + 12$ d $Y = 6 h + 12$
- 42 $(\dots\dots, \dots\dots)$ is called the origin .
- a $(1, 1)$ b $(0, 1)$ c $(0, 0)$ d $(1, 0)$
- 43 The greatest negative integer is
- a 1 b -1 c 0 d -1000,000
- 44 $\frac{3}{7} + \frac{2}{5} =$
- a $\frac{5}{12}$ b $\frac{29}{35}$ c $\frac{1}{2}$ d 1
- 47 $3(5 + 4) = (3 \times \dots\dots) + (\dots\dots \times 4)$
- a 5,3 b 5,4 c 3,5 d 3,4
- 48 In the equation the : $y = 2x + 3$, the ordered pair $(2, a)$ satisfies the equation then, $a =$
- a 5 b 8 c 7 d 9
- 49 The median of the value 4, 7, 8, 1 and 3 is
- a 3 b 1 c 4 d 7
- 50 The median of $B + 1, B + 2, B + 3$ is 10, then $B =$
- a 1 b 3 c 2 d 8
- 51 If the upper quartile of the values : $m + 1, m + 2, m + 3, m + 4, k + 5$, where m is a positive integer is 16.5, then $m =$
- a 7 b 8 c 12 d 10
- 52 All the following are numerical data except.....
- a names b ages c length d temperatures
- 53 The opposite of the number 15 is
- a 15 b $|15|$ c -15 d $|-15|$
- 54 The additive inverse of $|-4|$ is
- a 4 b $|4|$ c -4 d $|-4|$
- 55 In the equation : $x = 5y + 3$, the dependent variable is.....
- a $5y$ b x c y d 3



- 56 In the equation : $4a + 24 = b$, the independent variable is.....
 (a) a (b) b (c) 24 (d) 4a
- 57 "k equals the product of m and 4" in equation is.....
 (a) $k = 4m$ (b) $k = 4 + m$ (c) $m = 4k$ (d) $m = k + 4$
- 58 which of the following is an equation?
 (a) $20x + 53.2$ (b) $2 + m$ (c) $Y > 12$ (d) $5x = 20$
- 59 "30 less than f equals y" in the equation is.....
 (a) $30 - f = y$ (b) $30 + f = y$ (c) $F - 30 = y$ (d) $Y - 30 = f$
- 60 If $(4, \dots)$ satisfies the rule $y = \frac{1}{2}x + 2$
 (a) 4 (b) 10 (c) 6 (d) 2
- 61 $\frac{9}{2}$ The set of natural numbers
 (a) Belong (b) Does not belong (c) subset (d) Not subset
- 62 is categorical data.
 (a) age (b) phone number (c) weight (d) favourite TV show
- 63 is numerical data
 (a) nationality (b) Place of birth (c) Exam degree (d) name
- 64 The LCM of any two different prime numbers is
 (a) 1 (b) The product of them (c) The smallest number (d) The greatest number
- 65 The dividend in $321 \div 12 = 26 \text{ R}9$ is
 (a) 321 (b) 12 (c) 26 (d) 9
- 66 is the better measure of centre for data set with outlier values.
 (a) Median (b) Range (c) Mode (d) mean
- 67 Which of the following is nearest to zero ?
 (a) 5 (b) -1 (c) -3 (d) 3
- 68 The best subset for the number 0 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 69 Which of the following is the greatest number ?
 (a) -5.3 (b) -3.5 (c) 3.5 (d) 5.3



- 70 Which of the following is the smallest number ?
 (a) -3.2 (b) -2.3 (c) -0.5 (d) -0.01
- 71 The best subset for the number -3 is
 (a) Counting numbers (b) Rational numbers (c) Integers (d) natural numbers
- 72 The range can not be found using.....
 (a) dot plot (b) histogram (c) box plot (d) all of them
- 73 If the mean of 8, 6, x, 5 is 5, then x =
 (a) 1 (b) 2 (c) 3 (d) 4
- 74 The mean of the values "54, 32, 30, 4" is.....
 (a) 18 (b) 30 (c) 4 (d) 54
- 75 The LCM of 5 and 15 is
 (a) 5 (b) 15 (c) 1 (d) 3
- 76 The GCF of 5 and 15 is
 (a) 5 (b) 15 (c) 1 (d) 3
- 77 The common factor of all number is
 (a) 0 (b) 1 (c) 2 (d) 100
- 78 If the cost of one ticket "h" and the total cost of 5 tickets "m", Then the independent variable is.....
 (a) m (b) h (c) 5 (d) 5h
- 79 If the cost of one ticket "h", then total cost of 5 tickets is
 (a) m (b) h (c) 5 (d) 5h
- 80 The order pair which satisfies the equation : $y = x + 2$
 (a) (0, 2) (b) (1, 1) (c) (2, 1) (d) (1, 2)
- 81 Which of the following is numerical expression ?
 (a) $3(6d + 5)$ (b) $8 + 6$ (c) $2n - 9$ (d) $4 - h$
- 82 Which of the following is algebraic expression ?
 (a) $4(6 + 5)$ (b) $4 - 1 + 2$ (c) $20 \div 9$ (d) $3h$
- 83 The integer which comes just after -1 is
 (a) 0 (b) 1 (c) -2 (d) -1
- 84 The integer that is one less than 0 is
 (a) 0 (b) 1 (c) -2 (d) -1



- 85 All counting numbers are also
- (a) natural numbers (b) Rational numbers (c) Integers (d) All of them
- 86 $|-10| > \dots\dots\dots$
- (a) $|-9.99|$ (b) $|-90|$ (c) $|-100|$ (d) $|-15|$
- 87 $5(8 + \dots\dots) \times 7$ is a numerical expression .
- (a) d (b) $4f$ (c) 5 (d) $19 + n$
- 88 $5(8 + \dots\dots) \times 7$ is a algebraic expression .
- (a) 5 (b) $5m$ (c) $18 + 2$ (d) 13
- 89 Adding 5 to third a number =
- (a) $5 + 3x$ (b) $3x + 5$ (c) $\frac{1}{3}x - 5$ (d) $\frac{1}{3}x + 5$
- 90 The distance between -6 and its opposite on the number line is
- (a) 6 (b) -6 (c) 12 (d) -12
- 91 $|-15| = m$, then $m = \dots\dots\dots$
- (a) -15 (b) 15 (c) Both a,b (d) neither
- 92 $|-x| = 5$, then $x = \dots\dots\dots$
- (a) -5 (b) 5 (c) Both a,b (d) neither
- 93 The number of terms in the expression $6d + 2 - 5n \div 4$ is terms
- (a) 1 (b) 2 (c) 3 (d) 4
- 94 The like terms in the expression $2f + 2 - 2k - 8$ is
- (a) $2f, 2k$ (b) $2, 8$ (c) $2, 2k$ (d) $2f, 2$
- 95 The constant in the expression $6d + 2 - 5n$ is
- (a) 6 (b) d (c) $5n$ (d) 2
- 96 The coefficient in the expression $6d + 2$ is
- (a) 6 (b) d (c) $6d$ (d) 2
- 97 The balance (mean) of the following date set 1, 2, 3, 4, 4, 6, 8 is.....
- (a) 2 (b) 6 (c) 4 (d) 8
- 98is another name for the mean .
- (a) Median (b) Range (c) Mode (d) Average



- 99 6 cubed =
 (a) 6^3 (b) 3^3 (c) 6^2 (d) 3^6
- 100 5 squared =
 (a) 2^5 (b) 5^2 (c) 2^2 (d) 5^5
- 101 $5^2 + 6 - 2^3 =$
 (a) 23 (b) 8 (c) 27 (d) 22
- 102 If the number of chicken owned is "t" and the number of eggs collected daily is "h", then the independent variable is
 (a) t (b) h (c) x (d) Other
- 103 The lower quartile for the set of data : 5, 7, 9, 10, 12, 15, 20 is.....
 (a) 10 (b) 5 (c) 9 (d) 7
- 104 The graph shows gaps and cluster is
 (a) Box plot (b) Bar graph (c) Dot plot (d) Other
- 105 The graph shows distribution and spread is
 (a) Box plot (b) Bar graph (c) Dot plot (d) Other
- 106 The upper quartile of the values "7, 1, 6, 2, 3, 1, 9" is.....
 (a) 7 (b) 6 (c) 9 (d) 2
- 107 The median of the values "2, 7, 10, 0, 2, 5, 6, 6, 12, 1" is.....
 (a) 7 (b) 6 (c) 5 (d) 5.5
- 108 If the upper quartile of the values : $x + 14, x + 10, x + 12, x + 15, x + 16, x + 11, x + 14, x + 17$ where x is a positive integer is 18.5, then x =
 (a) 3 (b) 4 (c) 2 (d) 1
- 109 $5x = 20$, then $\frac{1}{2}x =$
 (a) 5 (b) 4 (c) 20 (d) 2
- 110 $100x = 0$, then $12x =$
 (a) 12 (b) 0 (c) 10 (d) 100
- 111 $100x = 100$, then $12x =$
 (a) 12 (b) 0 (c) 1 (d) 100
- 112 $\frac{x}{5} = 6$, then x =
 (a) 30 (b) 6 (c) 35 (d) 11



- 113 $3n = 15$, then $n =$
 (a) 4 (b) 3 (c) 15 (d) 5
- 114 $X + 5.4 = 8.8$, then $x =$
 (a) 3.4 (b) 4.3 (c) 2.2 (d) 2.4
- 115 $7x = 28$, then $\frac{1}{2}x =$
 (a) 4 (b) 2 (c) 3 (d) 8
- 116 "F equals the product of m and 6" as an equation is
 (a) $F=6m$ (b) $M=6f$ (c) $F=m+6$ (d) $M=f+6$
- 117 The inequality that represent the negative integers is
 (a) $x \geq -1$ (b) $x \leq -1$ (c) $x > -1$ (d) $x < -1$
- 118 The inequality that represent the positive integers is
 (a) $x \geq -1$ (b) $x \leq -1$ (c) $x > -1$ (d) $x < -1$
- 119 The smallest natural number is
 (a) 0 (b) 1 (c) -1 (d) 2
- 120 The inequality that represent the non-negative integers is
 (a) $x \geq 0$ (b) $x \leq 0$ (c) $x > 0$ (d) $x < 0$
- 121 The inequality that represent the non-positive integers is
 (a) $x \geq 0$ (b) $x \leq 0$ (c) $x > 0$ (d) $x < 0$
- 122 The graph shows the 5-number summary is
 (a) Box plot (b) Bar graph (c) Dot plot (d) Other
- 123 "Twice x added to 7 equals y" as an algebraic equation is
 (a) $y = 7 + 2x$ (b) $y = 7 + x$ (c) $y = 2 + 7x$ (d) $y = 2(7 + x)$
- 124 " $m = 5d - 5$ " as an verbal is
 (a) m equals 5 times d decreased by 5 (b) 5 equals m times d decreased by 5 (c) M equals 5 times d increase by 5 (d) Other
- 125 In the equation : $d = \frac{5}{9}n - 8$ the dependent variable is
 (a) d (b) N (c) 8 (d) -8
- 126 The greatest non-positive integer is
 (a) 1 (b) 0 (c) -1 (d) 2



- 127 "20 more than v equals m" in equation is
 (a) $20-v=m$ (b) $V=20+m$ (c) $V+20=m$ (d) $V+m=20$
- 128 The rule is "multiply by 8". if $x = \frac{1}{4}$, then y would be
 (a) 2 (b) 8 (c) 4 (d) 1
- 129 4 more than s equals t in equation is
 (a) $S+4$ (b) $s-4$ (c) $4-s$ (d) S
- 130 The word phrase for the equation " $h = 8g$ " is
 (a) H equals the sum of adding g (b) **h equals 8 times g** (c) H more than 8 equals g (d) Other
- 131 The ordered pair which satisfies the rule: $y = x + 5$ is (1,)
 (a) 6 (b) 5 (c) 1 (d) 0
- 132 In the rule: $y = 4x$, if $x = 1.5$ then $y = \dots$
 (a) 5 (b) 4 (c) **6** (d) 1.5
- 133 The product of 5 and a number t is
 (a) **5t** (b) $T=5$ (c) $5+t$ (d) T
- 134 "z equals the sum of adding 12 to the product of 4 and y" the equation is
 (a) $Z=4+y$ (b) $4y=z+12$ (c) **$z = 4y + 12$** (d) $Z=4y-12$
- 135 The dependent variable in the equation $a = 4b + \frac{1}{2}$ is.....
 (a) **a** (b) B (c) 4 (d) $\frac{1}{2}$
- 136= maximum value - minimum value
 (a) **range** (b) Mean (c) median (d) Other
- 137 The maximum values for the set of values "4,7,9,1,6" is.....
 (a) 1 (b) 4 (c) 6 (d) **9**
- 138 The favourite colours of a number of pupils are..... data.
 (a) numerical (b) **categorical** (c) statistical (d) Other
- 139 If the mean of 5 values is 15, then the sum of these values is.....
 (a) 3 (b) 25 (c) 50 (d) **75**
- 140 If the marks of 6 pupils in one of the tests are 29, 33, 57, 40, 36 and 49, then the range for these marks is equal to.....
 (a) 29 (b) **28** (c) 33 (d) 40



- 141 The number of integers between -5 and -1 are3.....
 (a) 5 (b) 4 (c) 3 (d) -3
- 142 The smallest counting number is
 (a) 0 (b) -1 (c) 1 (d) 2
- 143 If the price of one pen is 6 pounds , then the price of x pens is
 (a) 6x (b) $X=6$ (c) $x-6$ (d) $6-x$
- 144 If the price of 10 pens is x pounds , then the price of one pen is
 (a) $x \div 10$ (b) $x-10$ (c) $X=10$ (d) $X+10$
- 145 In 5^4 the base isand the exponent is
 (a) 5,4 (b) 4,5 (c) 4,4 (d) 5,5
- 146 The base is 8 and the exponent is 3 , then the exponential form of this is
 (a) 8^8 (b) 3^3 (c) 8^3 (d) 3^8
- 147 In a square the side length is x then the perimeter is and the area is
 (a) $4x, x^2$ (b) $4x, x$ (c) $x^2, 4x$ (d) X, x^2
- 148is the middle values of the data set.
 (a) mean (b) Mode (c) median (d) Outlier
- 149 The additive inverse of -6 is
 (a) 6 (b) -6 (c) 1 (d) 0
- 150 The additive inverse of 0 is
 (a) 3 (b) 2 (c) 1 (d) 0
- 151 The LCM of 5 and 7 is
 (a) 35 (b) 30 (c) 1 (d) 0
- 152 is the value that occurs most often .
 (a) mean (b) Mode (c) median (d) outlier
- 153 If 50 is the greatest number of data set and the range = 10 ,then The smallest number of this data set equals.....
 (a) 40 (b) 10 (c) 50 (d) 20
- 154 The number -2.5 in the form $\frac{a}{b}$ is
 (a) $-\frac{25}{100}$ (b) $-\frac{25}{10}$ (c) $\frac{25}{10}$ (d) $\frac{25}{100}$



- 155 The opposite of the number 50 is
- (a) 50 (b) 25 (c) -50 (d) 0
- 156 The integer which comes just before -9 is
- (a) -10 (b) -8 (c) 8 (d) 10
- 157 The GCF of 5 and 7 is
- (a) 35 (b) 1 (c) 0 (d) 30
- 158 The outlier of the following data set 91, 94, 93, 3, 90, 99 is.....
- (a) 3 (b) 91 (c) 90 (d) 99
- 159 The mode of the following set "3,4, 5,3,5,7,5,9,5,3" is.....
- (a) 4 (b) 5 (c) 3 (d) 9
- 160 The range of the set of values 6, 5, 9,4,11,3, 7 is.....
- (a) 7 (b) 6 (c) 8 (d) 9
- 161 If the range of a set of values is 12 and the smallest value is 8, then the largest values is.....
- (a) 20 (b) 12 (c) 8 (d) 4
- 162 If the sum of a group of values is 18 and the mean of these values is 3, then the number of these values is.....
- (a) 6 (b) 3 (c) 18 (d) 1
- 163 The smallest positive integer is
- (a) 0 (b) 1 (c) -1 (d) 2
- 164 The smallest non-negative integer is
- (a) 0 (b) 1 (c) -1 (d) 2

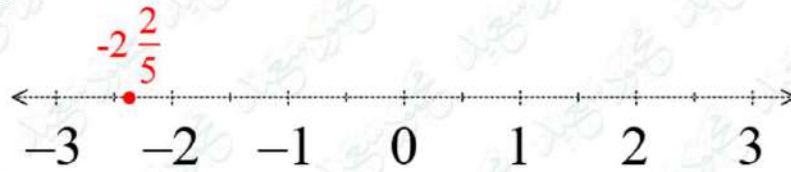
Question 02

Answer the following questions

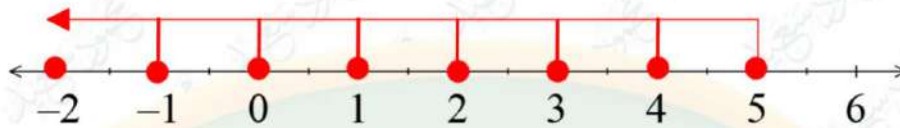
- 1 Simplify the following :
- 1) $6^2 + 2(24 - 9) \div 3$ 2) $8 - 4 \times 6 \div (5 - 3)^3$
- 1) 46 2) 5
- 2 Mohamed has x pounds . he bought a book for 60 pounds . write the algebraic expression of how much money with him now .
- X - 60



- 3 Represent $-2\frac{2}{5}$ on the number line .

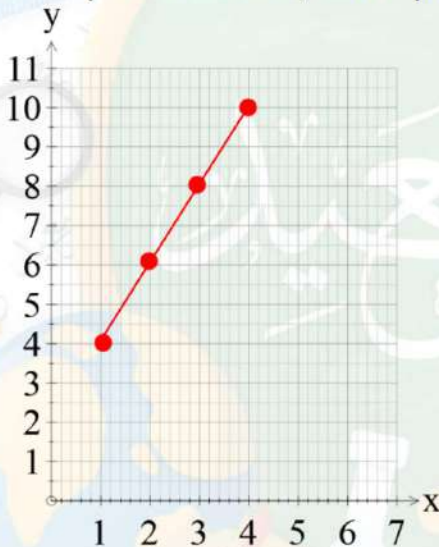


- 4 Represent $5 \geq x$ on the number line in the set of integers .



- 5 Write an equation. Use the variables x and y , where x is the independent variable .
Write the equation " add 1 and multiply by 2 " and substitute x by 1,2,3 and 4 to evaluate y .
then complete the table ,then represent the table on a graph .

Equation is : $(x+1) \times 2$



X	1	2	3	4
y	4	6	8	10

- 6 Write a verbal phrase for each of the following :

a) $f + 10 = m$

b) $b = 5 - k$

c) $2n + 8 = a$

a) 10 more than f equals m

b) b equals 5 decreased by k

c) the sum of twice n and 8 equals a

- 7 Complete the following table according to the equation : $y = 3x - 1$

X	1	3	5	7
y	2	8	14	20

- 8 Masa needed to earn at least 100 pounds daily to buy a mobile . find four possible amounts that Masa needed to earn ,then write the inequality that represented this situation .

100 , 150 , 200 , 300

- $x \geq 100$

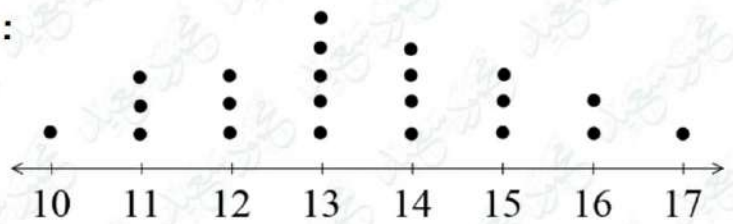


- 9 Joudy paid 3,888 pounds to buy 24 candies . find the price of each box .
 $3,888 \div 24 = 162$ pounds
- 10 Find three rational numbers between 3.5 and 3.6
 $3.51, 3.52, 3.53$
- 11 Write an equation, use the variables x and y , where x is the independent and using the rule " multiply by 8 ", then substitute $x = \frac{1}{2}$ to evaluate y .
 The equation is $y = 8x$, then $y = \frac{1}{2} \times 8 = 4$
- 12 Write each the verbal phrase as an algebraic equation :
 (a) m equals twice n increased by 20
 (b) y equals the product of eight and x added to 48
 a) $m = 2n + 20$
 b) $y = 48 + 8x$
- 13 When $m = 3$. solve $9 + (m^2 - 3) \div 2$
 12
- 14 Rodina has 30 pounds , she will save 10 pounds daily . write the algebraic expression , then evaluate how much money will she have after 1 week ?
 The expression is $30 + 10d$
 Money with her = $30 + 10 \times 7 = 100$ pounds
- 15 Write a verbal phrase for each of the following equation :
 a) $y = 3x + 1$
 b) $y + 5 = x$
 c) $g = (h \div 3) + 12$
 a) y equals 3 times x increased by 1
 b) the sum of y and 5 is x
 c) g equals the sum of h divided by 3 and 12
- 16 Write an equation, use the variables x and y where x is the independent variable , then evaluate y
 a) The equation " multiply by 6 ", substitute if $x = 7$
 b) The equation " multiply by 2 and add 3 ", substitute if $x = 2$
 a) $y = 6x$, then $y = 6 \times 7 = 42$
 b) $y = 2x + 3$, then $y = 2 \times 2 + 3 = 7$



- 17 By using the opposite dot plot find :

- (a) The median
(b) The mode
(c) The range



Median = 13 , mode = 13 , range = 7

- 18 If the number of goals registered by Al Zamalek in 6 matches are
3, 2, 6, 6, 1, 6

Calculated the mean , median and mode of the number of goals.

Mean = $24 \div 6 = 4$

Median = $9 \div 2 = 4.5$

Mode = 6

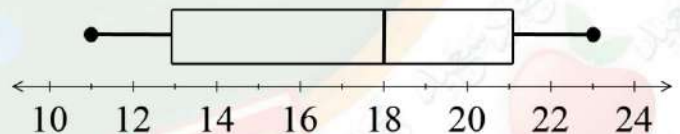
- 19 Rahma runs 3 km on Saturday, 5 km Sunday, 4 km Monday 4 km Tuesday and 4 km Friday

Find the mean distance covered by Rahma .

Mean = $20 \div 5 = 4$

- 20 from the opposite box plot, complete

- (a) The maximum value =23.....
(b) The minimum value =11.....
(c) the median =18.....
(d) the lower quarter = ...13....
(e) the upper quarter =21.....



- 21 Solve each of the following equations :

(a) $\frac{x}{4} = 3$

(b) $12x - 5 = 7$

a) $x = 12$

b) $x = 1$

- 22 The value of the expression $2x^2 - (2 \times 3 + 3^2)$ for $x = 3$ is
.....3.....

- 23 The verbal phrase for : $2m + 4 = 8$ is
.....double m increased by 4 equal 8



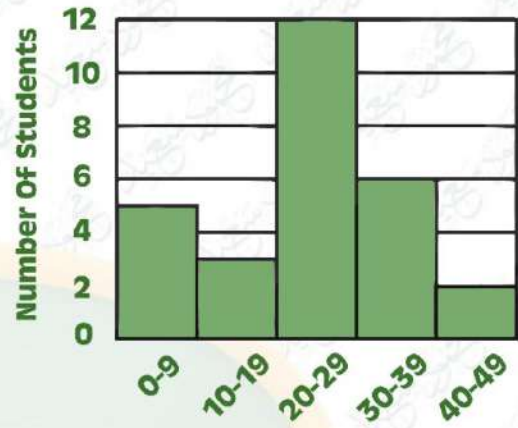
24

from the histogram shown at the right answer the following questions .

1. Which interval represents the most number of students?**20-29**....
2. Which interval has three students?**10-19**....
3. How many students went to a pool at least 30 times last summer?**8**....
4. How many students went to a pool less than ten times last summer?**5**....

The verbal phrase for $k + 10 = 12$ is..... **the sum of a number and 10 equals 12**

Number of visits to a pool
Last summer



Number Of visits

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم



حمل الآن

مجاناً وحصرياً

المراجعة رقم (4)

الترم الاول



Unit 1

Choose the correct answer

- 1 "331 + _____" is divisible by 3
A. 0 B. 1 C. 2 D. 3
- 2 The number _____ is divisible by 4
A. 373 B. 1,034 C. 78,012 D. 10,014
- 3 Which of the following is divisible by 4 ?
A. 441 B. 160 C. 483 D. 514
- 4 Which of the following numbers is divisible by 6 ?
A. 343 B. 1,026 C. 435 D. 112
- 5 All the following are divisible by 6 except _____
A. 924 B. 120 C. 663 D. 252
- 6 The number _____ is divisible by both 4 and 6
A. 220 B. 750 C. 132 D. 93
- 7 The number _____ is divisible by both 2 and 5
A. 255 B. 506 C. 340 D. 525
- 8 235 is divisible by _____
A. 2 B. 3 C. 5 D. 10
- 9 The number 7,904 is divisible by _____
A. 3 B. 4 C. 5 D. 6
- 10 117 is divisible by _____
A. 2 B. 3 C. 4 D. 5
- 11 370 is NOT divisible by _____
A. 2 B. 3 C. 5 D. 10

Unit 1

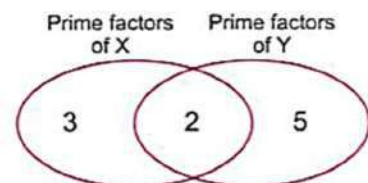
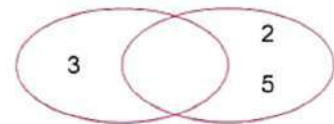
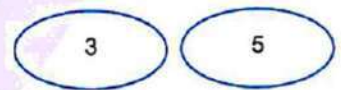
Choose the correct answer

- 12 90 is divisible by _____
A. 3 only. B. 2, 3 and 6 only. C. 2, 3 and 5 only. D. 2, 3, 5, 6 and 10
- 13 The common factor of all numbers is _____
A. 0 B. 1 C. 2 D. 3
- 14 The common multiple of all numbers is _____
A. 0 B. 1 C. 2 D. 3
- 15 The G.C.F of 4 and 12 is _____
A. 2 B. 4 C. 8 D. 12
- 16 The G.C.F of 6 and 5 is _____
A. 1 B. 11 C. 30 D. 60
- 17 The G.C.F of 4 and 9 is _____
A. 1 B. 4 C. 9 D. 36
- 18 The G.C.F of 10 and 8 is _____
A. 2 B. 18 C. 40 D. 80
- 19 The G.C.F of 6 and 9 is _____
A. 3 B. 18 C. 36 D. 1
- 20 The G.C.F of two relatively prime numbers is _____
A. 0 B. 1 C. 2 D. 3
- 21 Which of the following are relatively prime numbers ? _____
A. 2 and 10 B. 9 and 25 C. 4 and 6 D. 15 and 6

Unit 1

Choose the correct answer

- 22 Which of the following are relatively prime numbers ?
 A. 4 and 6 B. 8 and 15 C. 8 and 18 D. 8 and 24
- 23 The L.C.M of 5 and 7 is _____
 A. 0 B. 1 C. 12 D. 35
- 24 The L.C.M of 3 and 12 is _____
 A. 36 B. 1 C. 12 D. 3
- 25 The L.C.M of 6 and 10 = _____
 A. 2 B. 16 C. 30 D. 60
- 26 If the prime factorization of a number is $2 \times 2 \times 2$, then the number is _____
 A. 8 B. 4 C. 6 D. 222
- 27 The number which its all prime factors are 2, 3 and 7 is _____
 A. 12 B. 42 C. 23 D. 13
- 28 In the opposite Venn diagram : the L.C.M is _____
 A. 0 B. 1 C. 15 D. 8
- 29 In the opposite Venn diagram , the L.C.M is _____
 A. 1 B. 3
 C. 2×5 D. 30
- 30 In the opposite Venn diagram , the value of X is _____
 A. 2 B. 30
 C. 6 D. 10



Unit 1

Choose the correct answer

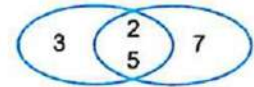
31 From the opposite Venn diagram , the expression is _____

A. $10 (6 + 35)$

B. $3 (10 + 7)$

C. $7 (10 + 3)$

D. $10 (3 + 7)$



32 $16 + 24 = 8 (2 + \text{_____})$

A. 24

B. 16

C. 2

D. 3

33 $10 + 45 = 5 [\text{_____} + \text{_____}]$

A. 10 , 40

B. 5 , 40

C. 9 , 5

D. 2 , 9

34 $5 + 12 = \text{_____} (5 + 12)$

A. 1

B. 5

C. 12

D. 60

35 $35 + 42 = \text{_____} (5 + 6)$

A. 35

B. 30

C. 6

D. 7

36 $20 + 25 = 5 (\text{_____} + 5)$

A. 4

B. 5

C. 20

D. 25

37 $14 + 21 = 7 (2 + \text{_____})$

A. 3

B. 21

C. 4

D. 147

38 $20 + 16 = 4 (\text{_____} + \text{_____})$

A. 16 , 12

B. 5 , 4

C. 5 , 16

D. 5 , 12

39 $\text{_____} + \text{_____} = 12 (5 + 1)$

A. 17 , 13

B. 60 , 12

C. 60 , 1

D. 5 , 12

40 $48 + \text{_____} = 16 (\text{_____} + 2)$

A. 32 , 3

B. 2 , 3

C. 16 , 3

D. 2 , 16

Unit 1

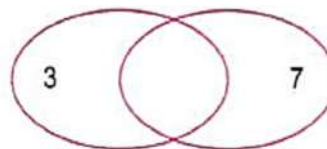
Choose the correct answer

- 41 $1\frac{3}{5} + 2\frac{1}{5} =$ _____
 A. $3\frac{4}{5}$ B. $3\frac{4}{10}$ C. $3\frac{3}{5}$ D. $3\frac{1}{5}$
- 42 $\frac{3}{4} + \frac{2}{4} + \frac{1}{4} + \frac{1}{4} =$ _____
 A. $\frac{7}{16}$ B. $\frac{7}{8}$ C. $1\frac{3}{4}$ D. $\frac{17}{4}$
- 43 $6\frac{1}{8} + \frac{3}{4} =$ _____
 A. $7\frac{3}{4}$ B. $6\frac{7}{8}$ C. $6\frac{5}{8}$ D. $7\frac{4}{8}$
- 44 $5\frac{1}{2} + 3\frac{1}{5} =$ _____
 A. $8\frac{2}{7}$ B. $8\frac{7}{10}$ C. $8\frac{1}{2}$ D. $8\frac{2}{5}$
- 45 $4\frac{1}{5} - 3\frac{2}{5} =$ _____
 A. $1\frac{1}{5}$ B. $\frac{4}{5}$ C. $\frac{1}{5}$ D. 1
- 46 $2\frac{1}{4} - 1\frac{1}{2} =$ _____
 A. $1\frac{1}{2}$ B. $\frac{3}{4}$ C. $1\frac{3}{4}$ D. $\frac{4}{3}$
- 47 $\frac{3}{4} - \frac{1}{11} =$ _____
 A. $\frac{2}{7}$ B. $\frac{37}{44}$ C. $\frac{29}{44}$ D. $\frac{2}{11}$
- 48 $10 - 3\frac{1}{4} =$ _____
 A. $7\frac{1}{4}$ B. $6\frac{1}{4}$ C. $7\frac{3}{4}$ D. $6\frac{3}{4}$

Unit 1

Complete the following

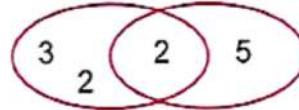
- 1 The number is divisible by 2 if its Ones digit is _____
- 2 The number is divisible by 5 if its Ones digit is _____
- 3 The number is divisible by 10 if its Ones digit is _____
- 4 The greatest 3-digit number divisible by 2 is _____
- 5 The greatest 3 – digit number divisible by 5 is _____
- 6 The smallest 3-digit number divisible by 3 , 2 and 10 is _____
- 7 The smallest number which can be added to 328 to make the result divisible by 3 is _____
- 8 The smallest number can be subtracted from 721 to make the result divisible by 4 is _____
- 9 Each whole number except zero is divisible by _____
- 10 If $4 \times 6 = 24$, then answer each of the following.
 - a. 24 is divisible by _____ and _____
 - b. 4 is a _____ of 24
- 11 The G.C.F of 4 and 8 is _____
- 12 The G.C.F of 12 and 9 is _____
- 13 The L.C.M of 8 and 16 is _____
- 14 The L.C.M of 5 and 8 is _____
- 15 In the opposite Venn diagram the G.C.F is _____
- 16 In the opposite Venn diagram the L.C.M is _____



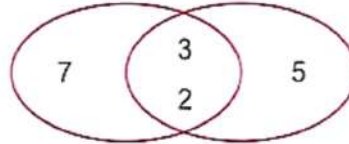
Unit 1

Complete the following

- 17 In the opposite Venn diagram the G.C.F is _____



- 18 In the opposite Venn diagram, the L.C.M is _____



19 $8(5 + 4) = 40 + \underline{\hspace{2cm}}$

20 $42 + 35 = 7 \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times 5$

21 $18 + 9 = 9(\underline{\hspace{2cm}} + \underline{\hspace{2cm}})$

22 $5 \times 3 + 5 \times 7 = 5(\underline{\hspace{2cm}} + \underline{\hspace{2cm}})$

23 $3\frac{1}{9} + 1\frac{8}{9} = \underline{\hspace{2cm}}$

24 $\frac{2}{7} + \frac{1}{7} + \frac{4}{7} = \underline{\hspace{2cm}}$

25 $\frac{7}{9} - \frac{5}{9} = \underline{\hspace{2cm}}$

26 $\frac{7}{12} - \frac{1}{2} = \underline{\hspace{2cm}}$

27 $3\frac{2}{5} - 1\frac{1}{10} = \underline{\hspace{2cm}}$

28 $2\frac{1}{5} - 1\frac{1}{6} = \underline{\hspace{2cm}}$

29 $\frac{1}{3} + \frac{2}{5} = \underline{\hspace{2cm}}$

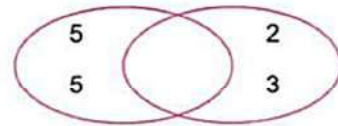
30 $\frac{7}{10} + \frac{5}{6}$

Unit 1

Answer the following

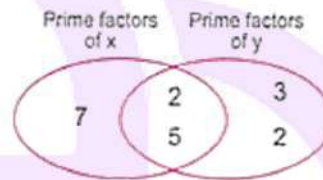
1 Using the following Venn diagram complete.

- The two numbers represented in the Venn diagram are _____ and _____
- The G.C.F of the two numbers is _____
- The L.C.M of the two numbers is _____
- Are the two numbers relatively prime numbers ?



2 From the opposite Venn diagram :

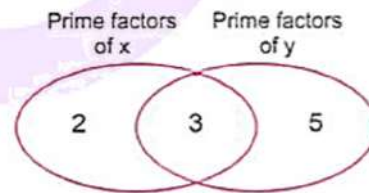
- The value of x is _____
- The value of y is _____
- The G.C.F is _____
- The L.C.M is _____



Are the two numbers relatively prime numbers ?

3 From the opposite Venn diagram , complete :

- G.C.F = _____
- L.C.M = _____
- Value of $x + y$ = _____



4 Find the G.C.F of the following numbers using Venn diagram
7 and 12

5 Find the G.C.F and L.C.M of 10 and 30 using Venn diagram.

Unit 1

Answer the following

- 6 Find the G.C.F and L.C.M of the two numbers 35 and 42 by using Venn diagram.
- 7 If Hana has 32 fruit slices and 48 pack of biscuits, what is the greatest number of bags he can prepare with no snacks left over?
and how many fruit slices and how many pack of biscuits will she put in each bag?
Write the expression which represents the total number of snacks.
- 8 The Food Bank wants to distribute 354 food boxes. Is it possible to distribute the boxes among 6 villages equally? and why?
- 9 In the pond, $\frac{1}{3}$ of the lilies are white and $\frac{1}{4}$ of the lilies are pink. The remaining lilies are blue. What is the fraction of the blue lilies?

The Answers

Choose the correct answer:

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. C | 2. C | 3. B | 4. B | 5. C |
| 6. C | 7. C | 8. C | 9. B | 10. B |
| 11. B | 12. D | 13. B | 14. A | 15. B |
| 16. A | 17. A | 18. A | 19. A | 20. B |
| 21. B | 22. B | 23. D | 24. D | 25. C |
| 26. A | 27. B | 28. C | 29. D | 30. C |
| 31. D | 32. D | 33. D | 34. A | 35. D |
| 36. A | 37. A | 38. B | 39. B | 40. A |
| 41. A | 42. C | 43. B | 44. B | 45. B |
| 46. B | 47. C | 48. D | | |

Complete the following:

- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| 1) even | 2) 0 or 5 | 3) 0 | 4) 998 |
| 5) 995 | 6) 120 | 7) 2 | 8) 1 |
| 9) itself | 10) a. 4 and 6 | b. factor | 11) 4 |
| 12) 3 | 13) 16 | 14) 40 | 15) 1 |
| 16) 21 | 17) 2 | 18) 210 | 19) 32 |
| 20) 6 , 7 | 21) 2 , 1 | 22) 3 , 7 | 23) 5 |
| 24) 1 | 25) $\frac{2}{9}$ | 26) $\frac{1}{12}$ | 27) $2\frac{3}{10}$ |
| 28) $1\frac{1}{30}$ | 29) $\frac{11}{15}$ | 30) $1\frac{8}{15}$ | |

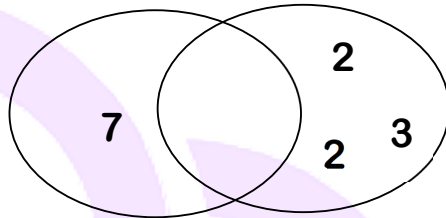
The Answers

Answer the following:

- 1) a. 25 , 6 b. 1 c. 150 d. yes
- 2) a. 70 b. 60 c. 10 d. 420 no
- 3) a. 3 b. 30 d. 21
- 4) $7 = 7$

$$12 = 2 \times 2 \times 3$$

$$\text{G.C.F} = 1$$

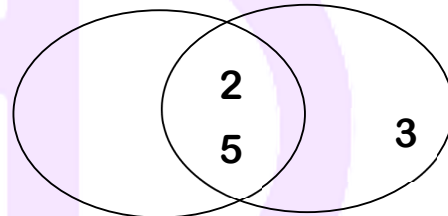


5) $10 = 2 \times 5$

$$30 = 2 \times 5 \times 3$$

$$\text{G.C.F} = 2 \times 5 = 10$$

$$\text{L.C.M} = 2 \times 5 \times 3 = 30$$

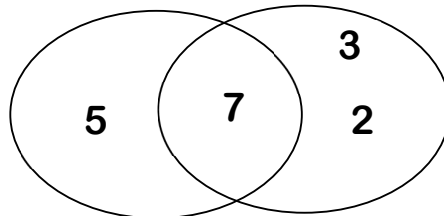


6) $35 = 5 \times 7$

$$42 = 7 \times 2 \times 3$$

$$\text{G.C.F} = 7$$

$$\text{L.C.M} = 5 \times 7 \times 2 \times 3 = 210$$



The Answers

$$7) 32 = 2 \times 2 \times 2 \times 2 \times 2$$

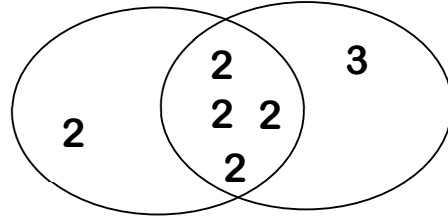
$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

The greatest number of bags = 16

Number of fruit slices = 2

Number of pak of biscuits = 3

The expression is $16 (2 + 3) = 16 \times 2 + 16 \times 3 = 32 + 48$



8) 354 is divisible by 2 and divisible by 3

Then it is divisible by 6 ,

so its possible to distribute the boxes among 6 villages equally

$$9) 1 - \frac{1}{3} - \frac{1}{4} = \frac{12}{12} - \frac{4}{12} - \frac{3}{12} = \frac{5}{12}$$

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اضغط هنا



Math For Kids: Hoda Ismail

Unit 2

Choose the correct answer

- 1 Each number in the set of integers is called _____.
A. element B. set C. subset D. not subset
- 2 The best subset of 0 is _____ numbers.
A. counting B. natural C. integer D. rational
- 3 The best subset of -4 is _____ numbers.
A. counting B. natural C. integer D. rational
- 4 The number 2.71 belongs to _____ numbers.
A. counting B. natural C. integer D. rational
- 5 The best subset of 2 is _____ numbers.
A. counting B. natural C. integer D. rational
- 6 The number -9 _____ the set of rational number.
A. belongs to B. does not belong to
C. is subset from D. is not subset from
- 7 The set of integers _____ the set of rational numbers.
A. belongs to B. does not belong to
C. is a subset of D. is not a subset of
- 8 The set of counting numbers _____ the set of rational numbers.
A. belongs to B. does not belong to
C. is a subset of D. is not a subset of
- 9 All the following are integers except _____.
A. -4 B. $\frac{10}{5}$ C. $\frac{13}{5}$ D. $\frac{0}{5}$

Unit 2

Choose the correct answer

- 10 Which of the following is an integer ?
A. $\frac{15}{2}$ B. $\frac{15}{3}$ C. $\frac{15}{4}$ D. $\frac{15}{6}$
- 11 All the following numbers are rational except _____
A. 1 B. $\frac{2}{7}$ C. $\frac{4-4}{7}$ D. $\frac{8}{5-5}$
- 12 Which of the following is an integer ?
A. $\frac{16}{5}$ B. $-\frac{2}{4}$ C. $-\frac{15}{5}$ D. -0.4
- 13 Which of the following is nearest to zero ? _____
A. -4 B. 4 C. -3 D. 2
- 14 The smallest positive integer number is _____
A. 3 B. 2 C. 1 D. 0
- 15 The greatest non-positive integer is _____
A. 1 B. -1 C. 0 D. 1.1
- 16 The greatest negative integer is _____
A. -1 B. -2 C. -3 D. -4
- 17 The smallest non-negative integer is _____
A. -1 B. -2 C. 0 D. 1
- 18 The smallest natural number is _____
A. -1 B. 0 C. 1 D. 2
- 19 The opposite of 5 is _____
A. 5 B. 0 C. -5 D. 10

Unit 2

Choose the correct answer

- 20 The additive inverse of -2 is _____
 A. -2 B. 2 C. 0 D. 4
- 21 The opposite of zero is _____
 A. -1 B. 1 C. 0 D. has no opposite.
- 22 The absolute value of the opposite of $-1\frac{1}{2}$ is _____
 A. $2\frac{1}{2}$ B. 0 C. $1\frac{1}{2}$ D. $-1\frac{1}{2}$
- 23 The absolute value of the opposite of $\frac{1}{2}$ is _____
 A. $\frac{1}{2}$ B. 0 C. 1 D. $-\frac{1}{2}$
- 24 If $|-99| = x$, then $x =$ _____
 A. -99 B. 99 C. -9 D. 9
- 25 The integer which comes just before -3 is _____
 A. -2 B. -4 C. -1 D. 0
- 26 The number $-2\frac{1}{4}$ in the form $\frac{a}{b}$ is _____
 A. $-\frac{4}{9}$ B. $-\frac{9}{4}$ C. $-\frac{7}{4}$ D. $-\frac{21}{4}$
- 27 The number -1.5 in the form $\frac{a}{b}$ is _____
 A. $-\frac{1}{5}$ B. $-\frac{5}{1}$ C. $-\frac{15}{10}$ D. $-5\frac{1}{10}$
- 28 Wael deposit of 1,000 L.E. in a bank represents as _____
 A. $1,000$ B. $-1,000$ C. 100 D. -100

Unit 2

Choose the correct answer

- 29 The number of integers between -5 and 2 is _____
 A. 6 B. 5 C. -3 D. 7
- 30 The number of rational numbers lying between $\frac{-1}{4}$ and its opposite is _____
 A. 0 B. 1 C. 2 D. an infinite number.
- 31 The rational number between 0.3 and 0.4 is _____
 A. 0.2 B. 0.42 C. 0.32 D. 0.432
- 32 The rational number between -2.5 and -2.4 is _____
 A. -2.53 B. -2.43 C. -2.3 D. -2.32
- 33 _____ is lying between 2.14 and 2.2
 A. 2.15 B. 2.21 C. 2.20 D. 2.22
- 34 _____ is lying between -1.4 and -0.9
 A. -0.7 B. -1.3 C. -1.6 D. -0.90
- 35 The rational number between $1\frac{1}{2}$ and $1\frac{1}{3}$ is _____
 A. $\frac{5}{12}$ B. $2\frac{5}{12}$ C. $1\frac{5}{12}$ D. $1\frac{3}{6}$
- 36 The distance between the opposite of 3 and 0 on the number line is _____ unit[s]
 A. 3 B. -3 C. 0 D. 6
- 37 The distance between 0 and -2 on the number line is _____ unit[s].
 A. 0 B. 2 C. 4 D. -2

Unit 2

Choose the correct answer

- 38 The distance between -4 and its opposite on the number line is _____ unit[s]
 A. zero B. 4 C. 8 D. 16
- 39 Which of the following is the greatest number ?
 A. -1 B. -2 C. -3 D. -4
- 40 The smallest number from the following is _____
 A. 0.11 B. 0.2 C. 0.3 D. 0.101
- 41 The greatest number from the following is _____
 A. $\frac{1}{5}$ B. $\frac{1}{6}$ C. $\frac{1}{4}$ D. $\frac{1}{3}$
- 42 Which of the following is the greatest number ? _____
 A. -2.7 B. -7.2 C. -1.2 D. -2.1
- 43 $3.8 >$ _____
 A. 4.1 B. 5 C. -6.8 D. 8.9
- 44 $|-11| >$ _____
 A. 10 B. 11 C. 13 D. 101
- 45 $|-9| <$ _____
 A. -8 B. 0 C. 9 D. 10
- 46 $|-8| >$ _____
 A. $|-7|$ B. $|-8|$ C. $|-9|$ D. $|-10|$
- 47 $|-1.34| <$ _____
 A. 1.4 B. -1.29 C. -1.4 D. 1.19

Unit 2

Complete the following

- 1 The smallest counting number is _____
- 2 The smallest natural number is _____
- 3 The greatest negative integer is _____
- 4 The smallest positive integer is _____
- 5 The greatest non-positive integer is _____
- 6 The smallest non-negative rational number is _____
- 7 The integers between -4 and 2 are _____
- 8 The number of integers between -2 and 4 is _____
- 9 The best subset of 3 is _____ numbers.
- 10 The best subset for the number 0 is _____ number.
- 11 The opposite of $-2\frac{1}{3}$ is _____
- 12 The opposite of $|-4|$ is _____
- 13 The opposite of zero is _____
- 14 $-3\frac{1}{4}$ in the form $\frac{a}{b}$ is _____
- 15 The smallest number of $(0.1, \frac{1}{100}, 0.7, 2.1)$ is _____

Unit 2

Complete the following

16 $|-3| = \underline{\hspace{2cm}}$

17 $|-4| + |-7| = \underline{\hspace{2cm}}$

18 $|-4| + |12| = \underline{\hspace{2cm}}$

19 $|-2| \times |0| = \underline{\hspace{2cm}}$

20 $|-4| + \left|3\frac{1}{3}\right| = \underline{\hspace{2cm}}$

21 $\left|-3\frac{1}{4}\right| + \left|1\frac{3}{4}\right| = \underline{\hspace{2cm}}$

22 If $|x| = 4$, then $x = \underline{\hspace{2cm}}$ or $\underline{\hspace{2cm}}$

23 The absolute values of the two opposites are $\underline{\hspace{2cm}}$

24 The distance between -3 and 0 on the number line equals $\underline{\hspace{2cm}}$ unit[s]

25 The distance between -4 and its opposite on the number line equals $\underline{\hspace{2cm}}$ units.

26 The distance between 5 and $|-5|$ on the number line is $\underline{\hspace{2cm}}$ unit[s]

27 In the opposite number line, the integer A is $\underline{\hspace{2cm}}$



Unit 2

Answer the following

1 Write the correct sign "< , = or >".

$$-12 \quad \square \quad -4$$

$$4\frac{1}{2} \quad \square \quad 5$$

$$-\frac{1}{2} \quad \square \quad 0$$

$$-\frac{7}{5} \quad \square \quad -1\frac{2}{5}$$

$$0.4 \quad \square \quad -0.5$$

$$2.5 \quad \square \quad 2.47$$

$$0 \quad \square \quad -2$$

$$\frac{2}{8} \quad \square \quad 0.5$$

$$|-2.71| \quad \square \quad 2.7$$

$$|-3\frac{1}{2}| \quad \square \quad 3.12$$

$$|-3\frac{1}{2}| \quad \square \quad \frac{7}{2}$$

$$-\frac{1}{4} \quad \square \quad -\frac{3}{7}$$

$$|-3\frac{1}{4}| \quad \square \quad -4\frac{1}{3}$$

$$\frac{3}{4} - \frac{1}{2} \quad \square \quad \frac{2}{2}$$

2 Write "belongs" or "does not belong":

a. 0 _____ to set of rational numbers.

b. $|-7|$ _____ to set of natural numbers.

c. $2\frac{1}{2}$ _____ to set of integers.

d. $\frac{15}{3}$ _____ to set of counting numbers.

3 Write "a subset" or "not a subset".

a. Set of counting numbers is _____ of set of rational numbers.

b. Set of natural numbers is _____ of set of counting numbers.

c. Set of rational numbers is _____ of set of integers.

d. Set of integers is _____ of set of rational numbers.

Unit 2

Answer the following

- 4 Arrange the following numbers from the least to the greatest.

a. $-6, 0, -4, 4, -7, 3$

b. $-\frac{1}{2}, 2\frac{1}{2}, \frac{3}{4}, 0, -\frac{7}{12}$

- 5 Arrange in a descending order :

a. $|-3|, -\frac{7}{2}, \frac{5}{2}, 3\frac{1}{4}, 0, -11$

b. $-\frac{7}{10}, \frac{3}{5}, 0.4, -\frac{4}{5}, \text{zero}$

- 6 Find three rational numbers lies between : $\frac{3}{4}$ and $\frac{4}{5}$

- 7 Find two rational numbers lying between :

a. 2.4 and 2.5

b. $-\frac{3}{5}$ and $-\frac{1}{2}$

- 8 Represent the following numbers on the number line.

$$-\frac{1}{2}, \frac{1}{2}, -4\frac{1}{3}, 2\frac{1}{4}$$



The Answers

Choose the correct answer:

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. A | 2. B | 3. C | 4. D | 5. A |
| 6. A | 7. C | 8. C | 9. C | 10. B |
| 11. D | 12. C | 13. 2 | 14. C | 15. C |
| 16. A | 17. C | 18. B | 19. C | 20. B |
| 21. C | 22. C | 23. A | 24. B | 25. B |
| 26. B | 27. C | 28. A | 29. A | 30. D |
| 31. C | 32. B | 33. A | 34. B | 35. C |
| 36. 3 | 37. B | 38. C | 39. A | 40. D |
| 41. D | 42. C | 43. C | 44. A | 45. D |
| 46. A | 47. A | | | |

Complete the following:

- | | | | |
|---------------------|---------------------|---------------------|--------------------|
| 1) 1 | 2) 0 | 3) -1 | 4) 1 |
| 5) 0 | 6) 0 | 7) -3, -2, -1, 0, 1 | 8) 5 |
| 9) Counting numbers | | 10) Natural numbers | |
| 11) $2\frac{1}{3}$ | 12) -4 | 13) zero | |
| 14) $-\frac{13}{4}$ | 15) $\frac{1}{100}$ | 16) 3 | |
| 17) 11 | 18) 16 | 19) 0 | 20) $7\frac{1}{3}$ |
| 21) 5 | 22) 4 OR -4 | 23) equal | |

The Answers

Complete the following:

24) 3

25) 8

26) 0

27) - 4

Answer the following:

1)

$-12 < -4$

$4\frac{1}{2} < 5$

$-\frac{1}{2} < 0$

$-\frac{7}{5} = -1\frac{2}{5}$

$0.4 > -0.5$

$2.5 > 2.47$

$0 > -2$

$\frac{2}{8} < 0.5$

$|-2.71| > 2.7$

$|-3\frac{1}{2}| > 3.12$

$|-3\frac{1}{2}| = \frac{7}{2}$

$-\frac{1}{4} > -\frac{3}{7}$

$|-3\frac{1}{4}| > -4\frac{1}{3}$

$\frac{3}{4} - \frac{1}{2} < \frac{2}{2}$

2) a. belongs b. belongs c. does not belong d. belongs

3) a. subset b. not a subset c. not a subset

d. subset

4) a. $-7, -6, -4, 0, 3, 4$

b. $-\frac{7}{12}, -\frac{1}{2}, 0, \frac{3}{4}, 2\frac{1}{2}$

6

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The Answers

5) a. $3\frac{1}{4}$, $|-3|$, $\frac{5}{2}$, 0, $-\frac{7}{2}$, -11

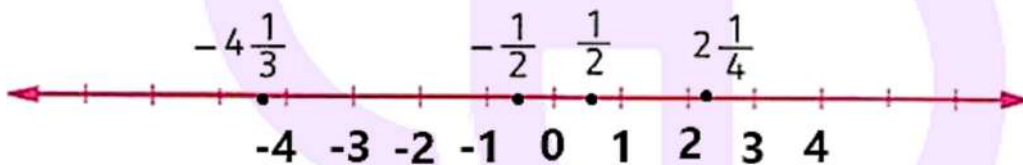
b. $\frac{3}{5}$, 0.4, zero, $-\frac{7}{10}$, $-\frac{4}{5}$

6) $\frac{61}{80}$, $\frac{62}{80}$, $\frac{63}{80}$

7) a. 2.41, 2.42

b. $-\frac{16}{30}$, $-\frac{17}{30}$

8)



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Math For Kids: Hoda Ismail

Unit 3

Choose the correct answer

- 1 The number of terms in the expression : $3x + 2$ is _____.
A. 4 B. 3 C. 2 D. $3x$
- 2 The number of terms of the expression : $5 - 2m - 3m + 4$ is _____ terms.
A. 5 B. -2 C. -3 D. 4
- 3 The number of terms of the expression $5x + 3y - 1$ is _____.
A. 5 B. 3 C. -1 D. 1
- 4 Which of the following are like terms ?
A. 5, 7 B. $2x, x^2$ C. $5a, 5b$ D. m^2, n^2
- 5 Which of the following are NOT like terms ?
A. $5b, b$ B. xy, y C. $31x, 13x$ D. 4, 5
- 6 The number of like terms in the expression : $2x + 3x + 3$ are _____.
A. 2 B. $2x$ and $3x$ C. 3 D. 2, 3
- 7 Number of like terms in the expression $4a + 4b + 5$ is _____.
A. 3 B. 2 C. 1 D. zero
- 8 The like terms in the expression : $1 + 5a + 5b + 2$ are _____.
A. $5a$ and $5b$ B. 1 and 2 C. 5 and 5 D. 5 and 2
- 9 In the algebraic expression : $5x - 4 + 5m + 3$, the two like terms are _____.
A. 3 and $5m$ B. $5x$ and $5m$ C. 3 and -4 D. $5x$ and 3
- 10 The coefficient of the algebraic expression $4y - 3^2$ is _____.
A. 4 B. y C. 3 D. 2

Unit 3

Choose the correct answer

- 11 The coefficient in the algebraic expression $5 + 3x^2 + 1$ is _____
 A. 5 B. $3x^2$ C. 3 D. 1
- 12 The coefficient in the expression $6 - 3 + 5x$ is _____
 A. 6, 3 B. x C. $5x$ D. 5
- 13 The constant in the algebraic expression : $5x + 3b + 4$ is _____
 A. 5 B. $3b$ C. $5x$ D. 4
- 14 In the expression : $2a + 5 + a + 1$, which of the following is NOT true ?
 A. 2 and 5 are constant. B. 5 and 1 are constant.
 C. 2 and 1 are coefficient. D. $2a$ and a are like terms.
- 15 Which of the following is an algebraic expression ? _____
 A. $3^2 - 4$ B. $5x + 3$ C. $29 - 3^3$ D. $2(4 + 5)$
- 16 Which of the following numerical expression
 A. $5 - x + 3y$ B. $xy(3 + 4)$ C. $2m - 3$ D. $4 + (5 - 3) + 1$
- 17 Which of the following is not a numerical expression ?
 A. $5x + 3$ B. $5^2 + 4$ C. $3 - 1^2$ D. $3 \times 5 + 1$
- 18 $7 + 3(\text{_____} + 5) - 4$, complete to get a numeric expression.
 A. b B. k^2 C. $12 \div 2$ D. $x + y$
- 19 The algebraic expression of "subtract 3 from k" is _____
 A. $3 - k$ B. $k - 3$ C. $k + 3$ D. $3k$
- 20 10 less a number written as _____
 A. $x - 10$ B. $10 - x$ C. $10 + x$ D. $\frac{x}{10}$

Unit 3

Choose the correct answer

- 21 a number less than 5 written as _____
 A. $y + 5$ B. $y - 5$ C. $5y$ D. $5 - y$
- 22 The algebraic expression "add 3 to the product of 5 and x" is _____
 A. $3 + x$ B. $5x + 3$ C. $3x + 5$ D. $35 + x$
- 23 Twice the difference of a number and 5 is _____
 A. $2y + 5$ B. $2y - 5$ C. $2(y + 5)$ D. $2(y - 5)$
- 24 Take away twice the number k from 15 is written as _____
 A. $2k - 15$ B. $15 + 2k$ C. $15 - 2k$ D. $15 - k^2$
- 25 5 times a number less 7 is _____
 A. $5b + 7$ B. $7 - 5b$ C. $b^2 - 7$ D. $5b - 7$
- 26 Wael has x L.E., his father gave him 5 L.E., then he has _____
 A. $x - 5$ B. $x + 5$ C. $5x$ D. $\frac{x}{5}$
- 27 Eslam is x years old now, how old will he be after 6 years?
 A. $x \div 6$ B. $6x$ C. $6 + x$ D. $x - 6$
- 28 Laila saved n L.E. and she gave her mother 5 L.E., she will have _____ L.E.
 A. $n - 5$ B. $n + 5$ C. $5n$ D. $5 - n$
- 29 Sameh has 50 L.E. He bought 3 pens each for k L.E., then the remainder is _____
 A. 30 B. $3 + 50k$ C. $50 - 3k$ D. $50 + 3k$
- 30 If the product of x and 5 is 45, then x equals _____
 A. 45×5 B. $45 + 5$ C. $45 - 5$ D. $45 \div 5$

Unit 3

Choose the correct answer

- 31 Ayman bought 3 pens for x L.E. each and he paid 18 L.E. , then $x =$ _____ L.E.
 A. 54 B. 6 C. 21 D. 15
- 32 A number if added to 7 , the sum is 13 , then the number is _____
 A. 5 B. 20 C. 6 D. 15
- 33 $2^3 =$ _____
 A. 2×2 B. 3×3 C. 3^2 D. 8
- 34 $3 \times 3 \times 3 \times 3 =$ _____
 A. 3×4 B. 3 cubed C. 3 squared D. 3^4
- 35 Eight squared = _____
 A. 2×8 B. $8 + 2$ C. 8^2 D. $8 \div 2$
- 36 The cube of 6 equals _____
 A. 3×6 B. $6 + 3$ C. 6^3 D. 3^6
- 37 $5^4 =$ _____
 A. 4^5 B. 4×5 C. $5 \times 5 \times 5 \times 5$ D. $4 \times 4 \times 4 \times 4 \times 4$
- 38 Seven squared added to 5 equals _____
 A. $7^2 + 5$ B. $2^7 + 5$ C. $7 \times 2 \times 5$ D. $7 + 2^5$
- 39 Two cubed subtracted from five squared = _____
 A. $2 \times 3 + 5 \times 5$ B. $2^5 - 3^2$ C. $5^2 - 3^2$ D. $5^2 - 2^3$
- 40 Three cubed add to five squared equals _____
 A. $3 \times 3 + 5 \times 5$ B. $3^3 + 5^2$ C. $3^2 + 5^3$ D. $3^3 + 2^5$

Unit 3

Choose the correct answer

- 41 Volume of a cube of edge length 5 cm is _____ cm^3
 A. 6×5 B. 25 C. 5^3 D. 5^2
- 42 The value of the expression $4n - 5$ if $n = 2$ is _____
 A. 1 B. 3 C. 37 D. 12
- 43 The value of the algebraic expression : $3a + 5$ for $a = 4$ is _____
 A. 3 B. 39 C. 17 D. 5
- 44 The value of the expression $x + 3^2$ for $x = 1$ is _____
 A. 7 B. 16 C. 10 D. $3 + 1^2$
- 45 Which algebraic expression is equivalent to $10x + 15$?
 A. $5(2x + 3)$ B. $5(5x + 10)$ C. $15x + 10$ D. $2x + 3$
- 46 Which of the following is equivalent to the expression : $5x + 3 + x$?
 A. $6x + 2$ B. $8x + x$ C. $3(2x + 1)$ D. $9x$
- 47 Which of the following expression has the same value of $3x + 5$ at $x = 3$
 A. $3(x + 1) + 5$ B. $4x + 1$ C. $5x + 3$ D. $x^2 + 5$
- 48 Which expression is equivalent to $2x + 10$?
 A. $2(x + 5)$ B. $12x$ C. $20x$ D. $2x + 5 + 2$
- 49 All the following expressions are equivalent except _____
 A. $4x + 8$ B. $2[2x + 4]$ C. $4[x + 4]$ D. $4[x + 2]$
- 50 The first operation you perform in the expression : $3 + 5 - 4 + 2 \times 3^2$ is _____
 A. subtract B. add C. multiply D. exponent

Unit 3

Choose the correct answer

- 51 The first operation or exponent you perform in $3 \times 5 + 3 (2^3 - 5) - 4 \div 2$
 A. parantheses B. plus C. multiply D. exponent
- 52 The first operation you preform in the expression : $10 \div 5 + (3 - 1)^2$ is _____
 A. add B. subtract C. exponent D. divide
- 53 $8 - 4 \div 2 \times 3 =$ _____
 A. $5\frac{1}{3}$ B. 3 C. 2 D. $\frac{4}{6}$
- 54 $(1.5 \div 0.5)^2 + 9 - 4 =$ _____
 A. 14 B. 18 C. 9 D. 11

Complete the following

- 1 The number of terms of the expression : $3 + 4z$ is _____
- 2 In the algebraic expression : $4x + 3$, the variable is _____
- 3 The constant in the expression $3y + 2x - 5$ is _____
- 4 The coefficient in the algebraic expression : $5x + 3$ is _____
- 5 The two like algebraic terms $5 - 4x + 7^2$ are _____
- 6 In the algebraic expression : $5x - 3y^2 + 4$, the constant is _____
- 7 The coefficient of $2 + 3a - 5$ is _____

Unit 3

Complete the following

- 8 The like terms in the algebraic expression : $2x + 3 + 5x$ are ____
- 9 If the base is 7 and the exponent is 5, then the exponential form of the number is ____
- 10 Twice the sum of a number and three in algebraic form is ____
- 11 The algebraic expression for "a number less 7" is ____
- 12 "10 less a number" written as ____
- 13 The quotient of k and 3 written as ____
- 14 Nader saved x L.E. and his father gave him 6 L.E. , he will have ____
- 15 The age of Bassem now is x years old , then his age after 3 years is ____
- 16 Ramy works x hours daily , then the algebraic expression for the number of worked hours monthly is ____
- 17 If the price of a piece of tart is 18 L.E., then the algebraic expression represent the price of n pieces is ____
- 18 Area of the square whose side length 7 cm in the exponential form is ____ cm^2
- 19 $9 \times 9 \times 9 \times 9 \times 9 \times 9 = 9^{\text{---}}$

Unit 3

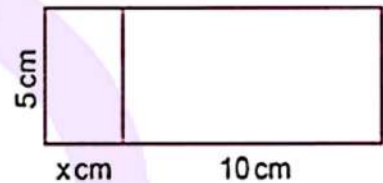
Complete the following

- 20 Five squared = _____
- 21 1 Cube = _____
- 22 The verbal form of " $m + 0.7$ " is _____
- 23 The verbal expression for " $3x + 1$ " is _____
- 24 The verbal form of the expression : $k - 5$ is _____
- 25 The verbal form of the expression $5 - k$ is _____
- 26 The verbal expression of " $2x - 5$ " is _____
- 27 The verbal form of " k^2 " is _____
- 28 The verbal form of " $k^3 + 1$ " is _____
- 29 The first operation in the numerical expression :
 $4 + 3 \div (5 - 1^2)$ is _____
- 30 $10 \div 5 + 2^3 - 4 =$ _____
- 31 $5^2 + 3 \times 6 \div 2 =$ _____
- 32 $13 - 7 + 2^3 \times 3^2 =$ _____
- 33 $4 + 3^2 \times 2 \div (3 - 1) =$ _____

Unit 3

Complete the following

- 34 $5 + (3^2 - 2) \times 7 = \underline{\hspace{2cm}}$
- 35 $(3^2 + 4) \div 13 = \underline{\hspace{2cm}}$
- 36 The values of the expression : $x + 5$ for $x = 4$ is $\underline{\hspace{2cm}}$
- 37 The value of the expression : $4(3x + 1)$ at $x = 1$ is $\underline{\hspace{2cm}}$
- 38 The value of the expression $5(2h - 3) + 1$ at $h = 2.5$ is $\underline{\hspace{2cm}}$
- 39 Write algebraic expression to find the area of the opposite figure.



Answer the following

- 1 Use the order of mathematical operations to simplify
- a. $40 + 5(3^2 - 7) + 10$
- b. $(17 - 11) + 3 \times 2^4 \div 2^3$
- c. $5(3^2 - 1) + 8 \div (6 - 4)$
- d. $2 \times 5 + (6^2 - 24 \div 2)$

Unit 3

Answer the following

- 2 Evaluate the expression :
- a. $34 + b(4^2 \div 2)$ at $b = 6$
- b. $5x^2 + 8 \div (6 - 4) \div 2$ at $x = 3$
- 3 If the ticket of entering a car park is 20 L.E. and 5 L.E. for each hour you spend.
- a. Write an algebraic expression to represent the relation between total cost and the number of hours.
- b. What is the cost of spending 3 hours in the park ?
- 4 Sandy has 200 L.E., her weekly pocket money she spends 20 L.E. daily.
- a. The algebraic expression represent that is
- b. The remained money after 5 days
- c. The remained money by the end of the week
- 5 Examine these two expression and determine whether they are equal. If so, consider whether they are always equal. Complete each task. $2(x + 1)$ and $2x + 2$
- a. Try to find a value of x that will make these expressions equal.
- b. Try to find a value for x that will make the expressions not equal.
- c. Decide if these two expressions are always equal and if they should be considered equivalent expressions.

The Answers

Choose the correct answer:

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. C | 2. D | 3. B | 4. A | 5. B |
| 6. A | 7. D | 8. B | 9. C | 10. A |
| 11. C | 12. D | 13. D | 14. A | 15. B |
| 16. D | 17. A | 18. C | 19. B | 20. B |
| 21. D | 22. B | 23. D | 24. C | 25. D |
| 26. B | 27. C | 28. A | 29. C | 30. D |
| 31. B | 32. C | 33. D | 34. D | 35. C |
| 36. C | 37. C | 38. A | 39. D | 40. B |
| 41. C | 42. B | 43. C | 44. C | 45. A |
| 46. C | 47. D | 48. A | 49. C | 50. D |
| 51. D | 52. B | 53. C | 54. A | |

Complete the following:

- | | | | |
|-------------------------------|------------------------|--------------|-------------|
| 1) 2 | 2) X | 3) -5 | 4) 5 |
| 5) $5, 7^2$ | 6) 4 | 7) 3 | 8) $2X, 5X$ |
| 9) 7^5 | 10) $2(X+3)$ | 11) $n-7$ | 12) $10-y$ |
| 13) $k \div 3$ | 14) $X+6$ | 15) $X+3$ | 16) $30X$ |
| 17) $n18$ | 18) 7^2 | 19) 9^6 | 20) 5^2 |
| 21) $1^3 = 1$ | 22) m increased by 0.7 | | |
| 23) 3 times number added to 1 | | 24) k less 5 | |

The Answers

Complete the following:

- | | | |
|---------------|------------------------------------|--------|
| 25) 5 less k | 26) subtract 5 from a twice number | |
| 27) squared k | 28) cubed k added to 1 | |
| 29) exponents | 30) 6 | 31) 34 |
| 32) 78 | 33) 13 | 34) 54 |
| 35) 1 | 36) 9 | 37) 16 |
| 38) 11 | 39) $5x + 50$ | |

Answer the following:

- | | | | |
|--------------------------------------|--------------------------------------|------------------------------|-------|
| 1) a. 60 | b. 12 | c. 44 | d. 34 |
| 2) a. 47 | b. 82 | | |
| 3) a. $5n + 20$ | | b. $5 \times 3 + 20 = 35$ | L.E. |
| 4) a. $200 - 20d$ | | b. $200 - 20 \times 5 = 100$ | L.E. |
| | | C. $200 - 20 \times 7 = 60$ | L.E. |
| 5) at $X = 1$ | at $X = 2$ | | |
| Exp 1 : $2(1+1) = 2 \times 2 = 4$ | Exp 1 : $2(2+1) = 2 \times 3 = 6$ | | |
| Exp 2 : $2 \times 1 + 2 = 2 + 2 = 4$ | Exp 2 : $2 \times 2 + 2 = 4 + 2 = 6$ | | |
- a. Any value makes these expressions equal.
 b. No value makes these expressions NOT equal.
 c. The two expressions are always equal.

شرح خطوات الحل على قناة اليوتيوب



Math For Kids: Hoda Ismail

Choose the correct answer

- Which of the following is an equation ?
A. $20x + 1.3$
B. $3 + a$
C. twice a number.
D. the sum of a number and 9 equals f
- If $x - 2 = 7$, then $x =$ _____
A. 5
B. 9
C. 14
D. 3.5
- If $x - 3 = 5$, then $\frac{1}{2}x =$ _____
A. 8
B. 4
C. 16
D. 1
- If $x + 4.5 = 5.7$, then $x =$ _____
A. 1.2
B. 1.3
C. 9.2
D. 10.2
- If $x + 3 = 5$, then $4x =$ _____
A. 2
B. 4
C. 8
D. 32
- If $x + 4 = 7$, then $\frac{1}{3}x =$ _____
A. 1
B. 4
C. 3
D. 9
- If $3x = 27$, then $x =$ _____
A. $27 + 3$
B. $27 - 3$
C. 27×3
D. $27 \div 3$
- If $2m = 12$, then $m =$ _____
A. 4
B. 6
C. 12
D. 24
- If $x + x = 12$, then $x =$ _____
A. 1
B. 2
C. 6
D. 24
- If $8y = 16$, then $\frac{1}{2}y =$ _____
A. 1
B. 2
C. 8
D. 16

Units 4&5

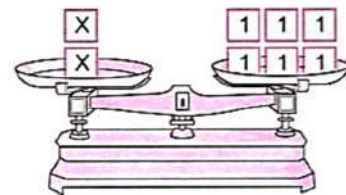
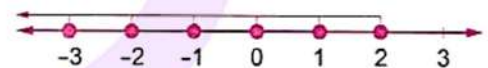
Choose the correct answer

- 11 If $\frac{x}{2} = 3$, then $x =$ _____
 A. 2 B. 3 C. 6 D. 1.5
- 12 If $3x = 0$, then $\frac{1}{2}x =$ _____
 A. 3 B. $1\frac{1}{2}$ C. 0 D. -3
- 13 _____ is a solution of $x < -1$
 A. 0 B. 1 C. -2 D. 3
- 14 Which are the three possible solutions for the inequality $z > 12$?
 A. 5, 7, 9 B. 10, 12, 14 C. 13, 17, 22 D. 12, 22, 32
- 15 All of the following are a solution of the inequality $x > 3$ except _____
 A. $|-4|$ B. -3 C. 4 D. 5
- 16 All the following are solutions of the inequality $x < 0$ except _____
 A. -1 B. $-|-3|$ C. $|-4|$ D. -5
- 17 All the following are a solution of the inequality $x < -1$ except _____
 A. -5 B. -4 C. -3 D. -1
- 18 All of the following are solutions of inequality $x > -2$ except _____
 A. -1 B. -3 C. 0 D. 1
- 19 Which of the following is a solution of the inequality $x \geq -5$?
 A. -5 B. -6 C. -7 D. -8
- 20 Which of the following is not a solution of $n \geq 2\frac{1}{4}$?
 A. $2\frac{1}{4}$ B. 3 C. -2 D. $2\frac{1}{2}$

Units 4&5

Choose the correct answer

- 21 Which of the following is NOT a solution of $n > 1.5$?
 A. 2.5 B. 2 C. 1.9 D. 1.5
- 22 A number is no more than 8 can be written as _____
 A. $n \leq 8$ B. $n < 8$ C. $n > 8$ D. $n \geq 8$
- 23 Number of solutions of inequality $x < -2$ is _____
 A. -3 B. -1 C. 0 D. infinite
- 24 Mohamed has 60 L.E. , his friend Ali has less money than Mohamed , then Ali may has _____
 A. 53 B. 61 C. 100 D. 60
- 25 Youssef can read more than 10 books monthly. Which inequality represent the number of books that Youssef read monthly ?
 A. $x > 10$ B. $x < 10$ C. $x \leq 10$ D. $x = 10$
- 26 The inequality that represented by the opposite number line in the set integers is _____
 A. $x > 2$ B. $x \geq 2$ C. $x \leq 2$ D. $x < 2$
- 27 The equation that represents the opposite figure is _____
 A. $x + 2 = 6$ B. $2x = 6$
 C. $x + 2 = 5$ D. $2x = 3$
- 28 In the equation : $x = 4y + 3$, the dependent variable is _____
 A. x B. 4 C. y D. 3



Units 4&5

Choose the correct answer

- 29 In the equation : $4a + 9 = m$, then independent variable is _____
 A. 4 B. a C. 9 D. m
- 30 The dependent variable in the algebraic equation : $2m + 3 = n$ is _____
 A. 2 B. m C. 3 D. n
- 31 The algebraic equation of "9 more than a equals b" is _____
 A. $b = a - 9$ B. $a + 9 = b$ C. $b = 9a$ D. $b = \frac{a}{9}$
- 32 "5 less d equals l" in equation is _____
 A. $d - 5 = l$ B. $5 - d = l$ C. $5 - l = d$ D. $5d = l$
- 33 "k equals the product of l and 8" as an equation is _____
 A. $k = 8l$ B. $k = 8 + l$ C. $l = 8k$ D. $l = 8 + k$
- 34 "6 times m added to 2 equals n" in equation is _____
 A. $6m - 2 = n$ B. $6n + 2 = m$ C. $6m + 2 = n$ D. $6 \times 2m = n$
- 35 "q is six times p add to 12" in equation is _____
 A. $q = 6p - 12$ B. $q = 6p + 12$ C. $p = 6q + 12$ D. $p = 6q - 12$
- 36 The word phrase for the equation " $l = 4z$ " is _____
 A. l equals 4 increased by z B. l equals 4 times by z
 C. l equals 4 less than by z D. l equals 4 decreased by z
- 37 In the rule $y = x + 4$, if $x = 1$, then y would be _____
 A. 3 B. 5 C. 4 D. 2
- 38 In the equation : $y = 2x + 3$, if $x = 4$, then y would be _____
 A. 2 B. 3 C. 4 D. 11

Units 4&5

Choose the correct answer

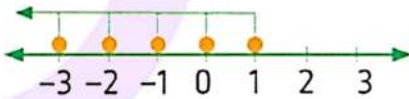
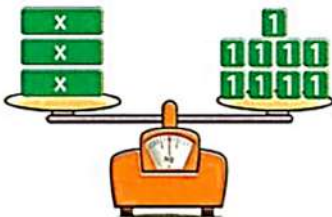
- 39 If $y = 7 + 3x$, then (_____ , 10) satisfies the equation.
 A. 1 B. 0 C. 2 D. 4
- 40 In the equation : $y = 2x + 1$, the ordered pair (2 , a) satisfies the equation , then a = _____
 A. 5 B. $\frac{1}{2}$ C. 23 D. 6
- 41 In the equation : $y = \frac{1}{4}x$, if the input is 12 , then the output is _____
 A. 48 B. 3 C. $12\frac{1}{4}$ D. $11\frac{3}{4}$

Complete the following

- 1 If $x + 3 = 10$, then $x + 2 =$ _____
- 2 If $k + 1 = 5$, then $k - 2 =$ _____
- 3 If $x + 3 = 5$, then $3x =$ _____
- 4 If $m - 2 = 7$, then $m + 1 =$ _____
- 5 If $4x = 20$, then $5x =$ _____
- 6 If $6y = 18$, then $\frac{1}{3}y =$ _____
- 7 If $8m = 0$, then $100m =$ _____
- 8 If $\frac{x}{2} = 3$, then $3x =$ _____

Units 4&5

Complete the following

- 9 If $\frac{3}{4}x = \frac{3}{4}$, then $2x = \underline{\hspace{2cm}}$
- 10 The smallest solution of the inequality $k \geq -3$ is $\underline{\hspace{2cm}}$
- 11 The smallest solution of the inequality $x \geq 5$ is $\underline{\hspace{2cm}}$
- 12 The smallest solution of the inequality ≥ -1 is $\underline{\hspace{2cm}}$
- 13 $\underline{\hspace{2cm}}$ is a solution of the inequality $x > -5$
- 14 $\underline{\hspace{2cm}}$ is a solution of the inequality $m < -6$
- 15 Marwan read at least 5 books, then Marwan may be read $\underline{\hspace{2cm}}$ book(s).
- 16 The inequality that represented by the opposite number line in the set of integers is 
- 17 The equation that represents the opposite model is $\underline{\hspace{2cm}}$ 
- 18 The independent variable in the equation : $y = x + 2$ is $\underline{\hspace{2cm}}$
- 19 In the rule : $5x + 1 = y$, then dependent variable is $\underline{\hspace{2cm}}$

Units 4&5

Complete the following

- 20 "4 increased by l equals q " in equation is _____
- 21 The word phrase for the equation " $m = 4l$ " is _____
- 22 In the equation : $y = 3x + 1$, if $x = 4$, then y would be _____
- 23 In the equation : $y = \frac{1}{2}x + 3$, if $x = 6$, then y would be _____
- 24 In the rule : $y = 4x$, if $x = 1.3$ m, then $y =$ _____
- 25 The rule is "multiply by 4" where x is the independent variable , if $x = \frac{1}{2}$, then y would be _____
- 26 The ordered pair which satisfies the rule : $y = x + 3$ is (1, _____)
- 27 The ordered pair (_____, 2) satisfies the algebraic equation : $y = x + 1$
- 28 The ordered pair (4, _____) satisfies the algebraic equation : $y = \frac{1}{2}x + 1$
- 29 (3, _____) satisfies the rule : $y = \frac{1}{3}x + 1$
- 30 In the equation : $y = x + \frac{1}{3}$, if the input is $2\frac{2}{3}$, then the output is _____

Units 4&5

Answer the following

- 1 Eslam needs 300 L.E. to buy pants. He does not have enough money. Find three possible amounts of money Eslam has.

- 2 Write the verbal phrase for each of the following equations.

a. $y = 3x + 1$

b. $y + 2 = x$

- 3 Write an equation use the variables x and y , where x is the independent, write the equation "multiply by 8 and add 3", substitute $x = \frac{1}{4}$ to evaluate y .

- 4 Solve each of the following equations :

a. $x + 5 = 17$

b. $x - 4 = |-2|$

c. $9x = 63$

d. $\frac{y}{4} = 7$

e. $x \div 5 = 7$

f. $7 + z = 17.8$

- 5 Name 2 solutions of each inequality.

Then graph the inequality on a number line

a. $x > 4$

b. $x \leq -1$

c. $x < 0$

d. $x \geq 5$

e. $l \geq -1$

f. $m < 3$

- 6 Complete the following table according to the equation : $y = 2x + 1$

x	0	4	8	10	13
y	—	—	—	—	—

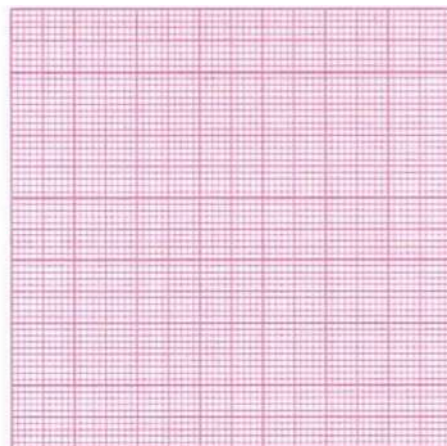
Units 4&5

Answer the following

7

Complete the table which satisfies the equation :
 $y = 3x + 1$ and represent it

x	0	1	2
y			
(x, y)			



The Answers

Choose the correct answer:

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. D | 2. B | 3. B | 4. A | 5. C |
| 6. A | 7. D | 8. B | 9. C | 10. A |
| 11. C | 12. C | 13. C | 14. C | 15. B |
| 16. C | 17. D | 18. B | 19. A | 20. C |
| 21. D | 22. A | 23. D | 24. A | 25. A |
| 26. C | 27. B | 28. A | 29. B | 30. D |
| 31. B | 32. B | 33. A | 34. C | 35. B |
| 36. B | 37. B | 38. D | 39. A | 40. A |
| 41. B | | | | |

Complete the following:

- | | | | | |
|------------------------|--------|-----------------|--------|--------|
| 1) 9 | 2) 2 | 3) 6 | 4) 10 | 5) 25 |
| 6) 1 | 7) 0 | 8) 18 | 9) 2 | 10) -3 |
| 11) 5 | 12) -1 | 13) -4 | 14) -7 | 15) 6 |
| 16) $x \leq 1$ | | 17) $3X = 9$ | | 18) X |
| 19) Y | | 20) $4 + L = q$ | | |
| 21) m equals 4 times L | | 22) 13 | | 23) 6 |
| 24) 4.2 | | 25) $y = 2$ | | 26) 4 |
| 27) 1 | | 28) 3 | | 29) 2 |
| 30) 3 | | | | |

The Answers

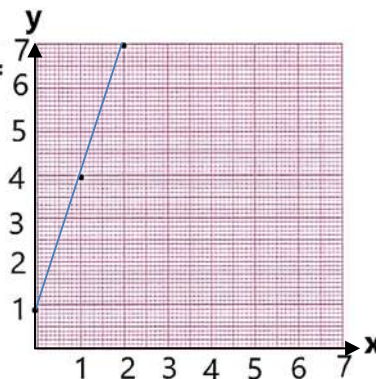
Answer the following:

- 1) $X < 300$ Eslam has 250 , 200 or 180
- 2) a. y equals 3 times added to 1
b. y increased by 2 equals x
- 3) $y = 8x + 3$ $y = 5$
- 4) a. 12 b. 6 c. 7 d. 28
e. 35 f. 10.8
- 5) a. $x = 5$ or 6 b. $x = -1$ or -2
c. $x = -1$ or -2 d. $x = 5$ or 6
e. $L = -1$ or 0 f. $m = 2$ or 1
- 6) Complete the following table according to the equation : $y = 2x + 1$

x	0	4	8	10	13
y	-1	-9	-17	-21	-27

- 7) Complete the table which satisfies the equation :
 $y = 3x + 1$ and represent it

x	0	1	2
y	1	4	7
(x,y)	(0,1)	(1,4)	(2,7)



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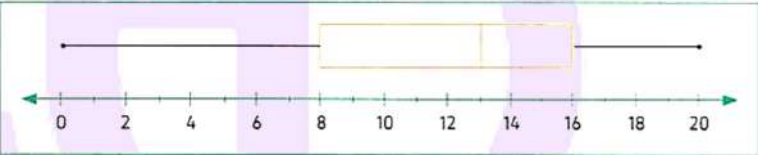
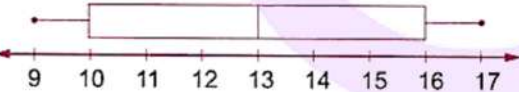
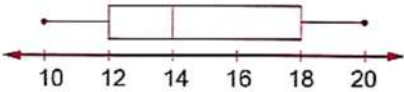
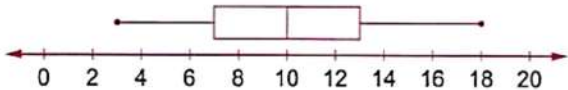
Units 6&7

Choose the correct answer

- 1 The _____ = the greatest value – the smallest value
A. Mean B. Median C. Mode D. Range
- 2 _____ is the middle value of the data set
A. outlier B. Median C. Mode D. Range
- 3 The values that lie outside most of the other values in a set of data called ____
A. outlier B. Median C. Mode D. Mean
- 4 The _____ = $\frac{\text{Sum of the values}}{\text{The number of values}}$
A. Mean B. Median C. Mode D. Range
- 5 The _____ is the value that occurs most often.
A. Mean B. Median C. Mode D. outlier
- 6 The median of the values 4 , 7 , 8 , 1 and 3 is _____
A. 1 B. 3 C. 4 D. 7
- 7 The median for the set of values : 109 , 90 , 114 , 120 , 97 , 104 , 93 , 98 , 127 , 94 is ____
A. 98 B. 101 C. 104 D. 107
- 8 If the median of $a + 1$, $a + 2$, $a + 3$ is 10 , then $a =$ _____
A. 1 B. 2 C. 3 D. 8
- 9 The upper quartile for the set of data : 100 , 101 , 103 , 97 , 98 , 99 and 102 is ____
A. 103 B. 102 C. 98 D. 100
- 10 The lower quartile for the set of data : 23 , 21 , 17 , 18 , 20 and 19 is _____
A. 17 B. 18 C. 19 D. 20

Units 6&7

Choose the correct answer

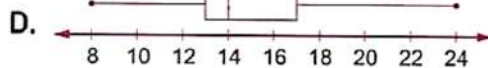
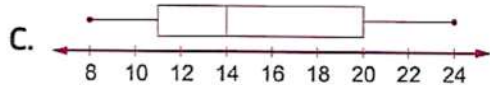
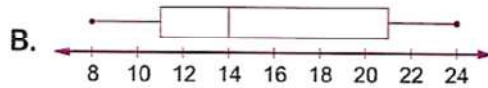
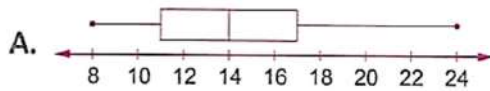
- 11 The lower quartile for the set of data : 72 , 64 , 77 , 61 , 79 , 63 , 76 , 75 and 60 is —
 A. 61 B. 62 C. 70 D. 76
- 12 The lower quartile of the values : 24 , 23 , 18 , 20 , 30 , 25 , 26 and 24 is —
 A. 21.5 B. 23.5
 C. 25.5 D. 24
- 13 If the upper quartile of the values : $k + 2$, $k + 3$, $k + 5$, $k + 4$, $k + 6$,
 where k is a positive integer is 15.5 , then $k =$ —
 A. 7 B. 8 C. 9 D. 10
- 14 If the lower quartile of the values : $k + 14$, $k + 10$, $k + 12$, $k + 15$, $k + 16$, $k + 11$, $k + 14$,
 $k + 17$ where k is a positive integer is 16.5 , then $k =$ —
 A. 3 B. 4 C. 5 D. 6
- 15 From the opposite box plot
 the median = —
 A. 8 B. 12
 C. 13 D. 16
- 
- 16 From the box plot — the upper quartile is —
 A. 9 B. 10 C. 13 D. 16
- 
- 17 From the opposite box plot
 , the difference between Q_3 and Q_1
 is —
 A. 12 B. 14 C. 10 D. 6
- 
- 18 Each of the following data could be
 represented by the box plot
 except —
- 
- A. 3 , 5 , 7 , 8 , 9 , 10 , 10 , 11 , 13 , 14 , 18 B. 3 , 6 , 7 , 7 , 8 , 10 , 11 , 12 , 13 , 15 , 18
 C. 3 , 4 , 6 , 7 , 9 , 10 , 11 , 11 , 13 , 17 , 18 D. 3 , 4 , 7 , 9 , 9 , 10 , 12 , 13 , 13 , 16 , 18

Units 6&7

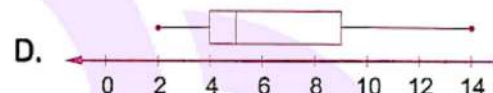
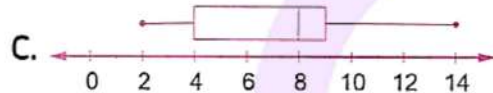
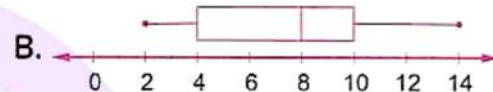
Choose the correct answer

- 19 Which box plot represents the data set :

8, 8, 9, 11, 12, 13, 13, 14, 15, 15, 16, 17, 18, 18, 24



- 20 Which box plot represents the data set 2, 2, 4, 4, 5, 8, 9, 9, 9, 10, 14



- 21 If opposite table shows the 5-number summary of the weights of your family members about $\frac{1}{4}$ of the weights have more than what number ?

min	Q1	median	Q3	max
60	75	95	105	120

- A. 60 B. 75 C. 95 D. 105

- 22 The opposite table shows the five-number summary of the marks of the students in your class. about $\frac{3}{4}$ of marks have more than what number ?

min	Q1	median	Q3	mix
14	19	25	28	30

- A. 14 B. 19 C. 25 D. 28

- 23 Which display makes it easier to see the median ?

- A. histogram B. box plot C. dot plot D. bar graph

- 24 The mode of 7, 9, 7, 8, 7, 6, 7 and 10 is _____

- A. 7 B. 8 C. 9 D. 10

- 25 The mode of the following data set [3, 4, 5, 3, 5, 7, 5, 9, 5, 2] is _____

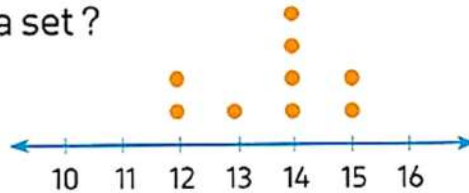
- A. 3 B. 5 C. 7 D. 9

Units 6&7

Choose the correct answer

- 26 The mode of set at values 5 ,7 ,9 ,1 ,9 ,7 and 6 is/are _____
 A. 5 B. 1 C. 6 D. 7 and 9

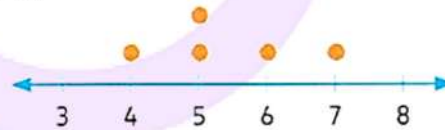
- 27 What is the mode of the following data set ?
 A. 12 B. 14
 C. 13 D. 15



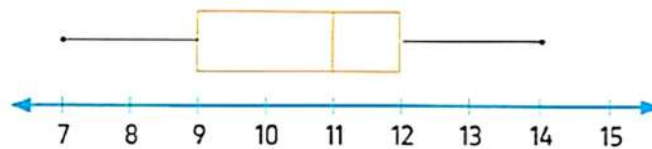
- 28 The range = the greatest value _____ the smallest value.
 A. + B. - C. × D. ÷
- 29 The range of the set of values : 6 ,5 ,9 ,4 ,11 ,3 and 7 is _____
 A. 5 B. 6 C. 7 D. 8
- 30 The range of the values : 9 ,10 ,3 ,1 ,8 ,11 ,0 is _____
 A. 1 B. 0 C. 11 D. 10

- 31 What is the range of the following data set ?

- A. 4 B. 3
 C. 5 D. 7



- 32 The range of the following data set by using the box plot is _____



- A. 9 B. 14 C. 11 D. 7

- 33 The outlier value of the following data set is _____

23 25 27 24 94 21 22 26

- A. 21 B. 27 C. 49 D. 94

Units 6&7

Choose the correct answer

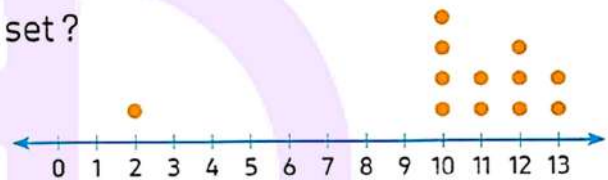
- 34 The outlier of the following values : 32 , 37 , 36 , 5 , 40 , 38 and 39 is _____
 A. 32 B. 40 C. 5 D. 39

- 35 Which of the following data sets hasn't any outlier ?
 A. 3 , 4 , 5 , 7 , 6 , 5 , 103 B. 0 , 51 , 52 , 53 , 54 , 55 , 506
 C. 11 , 11 , 12 , 13 , 13 , 14 , 15 , 15 D. 24 , 23 , 22 , 201 , 20 , 25

- 36 Which of the following data sets has 2 outliers ?
 A. 2 , 704 , 3 , 7 , 5 , 6 , 9. B. 202 , 200 , 201 , 203 , 17 , 204 , 205.
 C. 13 , 40 , 41 , 42 , 43 , 44 , 70. D. 62 , 65 , 63 , 61 , 60 , 64 , 66.

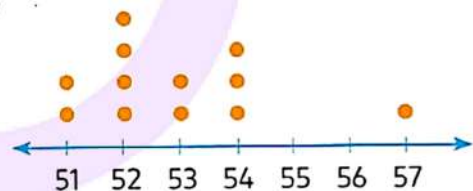
- 37 What is the outlier of the following data set ?

- A. 10 B. 2
 C. 13 D. 0



- 38 What is the outlier of the following data set ?

- A. 51 B. 52
 C. 57 D. 53



- 39 The mean of the following data set [4 , 5 , 7 , 7 , 8 , 9 , 9] is _____
 A. 6 B. 7 C. 8 D. 9

- 40 The mean of the data set (9 , 19 , 12 , 10) is _____
 A. 10 B. 12 C. 12.5 D. 15.5

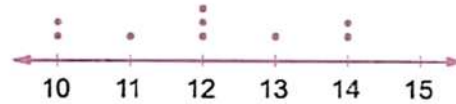
- 41 The balance of the data set 15 , 16 , 18 , 18 , 19 , 20 , 20 is _____
 A. 16 B. 17 C. 18 D. 19

- 42 The average of 11 , 12 , 14 , 14 , 14 , 14 , 15 , 16 and 16 is _____
 A. 13 B. 15 C. 14 D. 11

Units 6&7

Choose the correct answer

- 43 From the opposite dot plot, the mean equals _____



A. 12 B. 10 C. 15 D. 14

- 44 The balanced point of the set of data which is represents by the opposite dot plot is _____



A. 12 B. 13 C. 14 D. 15

- 45 The mean of the values which represents the opposite dot plot is _____



A. 6 B. 7 C. 8 D. 9

- 46 The mean of the following values _____ is _____



A. 2 B. 3 C. 4 D. 5

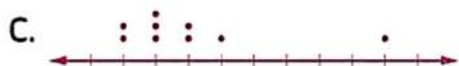
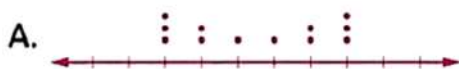
- 47 If the mean of 8, 6, x, 5 is 5, then x = _____

A. 1 B. 2 C. 3 D. 4

- 48 If the mean of the marks of 5 students is 20 marks, then the sum of their marks equals _____

A. 4 B. 15 C. 25 D. 100

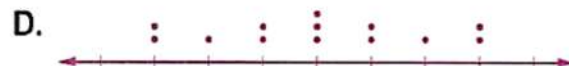
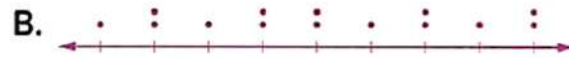
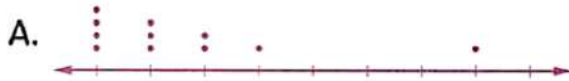
- 49 In which dot plot graph, the outlier increases the mean ?



Choose the correct answer

Units 6&7

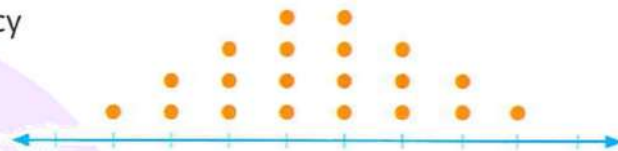
50 In which dot plot graph, the outlier decreases the mean ?



51 The better measure of the central tendency for the following data set is _____

- A. mean
C. either

B. median



52 The better measure of central tendency for the following data set is _____

A. Mean

B. Median

C. Either

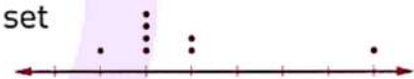


53 The better measure of central tendency the following data set is _____

A. Mean

B. Median

C. Either



54 Which of the following marks [for 8 students] can be represented by the opposite frequency table ?

- A. 25 ,53 ,30 ,57 ,37 ,37 ,31 ,40
B. 58 ,40 ,26 ,37 ,39 ,57 ,31 ,30
C. 57 ,31 ,37 ,27 ,58 ,39 ,30 ,30
D. 33 ,38 ,58 ,31 ,29 ,30 ,59 ,40

Interval	Frequency
20 – 29	1
30 – 39	5
40 – 49	0
50 – 59	2

55 An interval frequency table with class intervals of equal sizes using 60-69 as one of the class interval in constructing the following data : 63 ,70 ,80 ,83 ,94 ,72 ,66 ,68 ,98 ,78 ,87 ,65 ,93 ,77 ,80 ,85 ,78 ,70 ,62 ,81 ,74 ,83 ,66 ,76 ,88 , then the frequency of the class 70 - 79 is _____

A. 6

B. 7

C. 8

D. 9

Units 6&7

Choose the correct answer

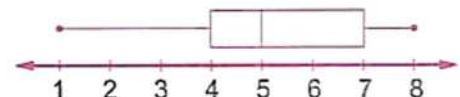
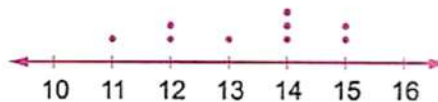
- 56 All of the following are numerical data except
- A. height B. favourite sport C. weight D. age
- 57 All of the following are categorical data except
- A. favourite food B. first name C. weight D. color
- 58 All dot plots have the following characteristics except _____
- A. Dot plots should have titles.
- B. Dot plots should have data graphed above a number line.
- C. Each individual piece of data can be seen on a dot plot and is represented by a dot.
- D. The number lines in dot plots should start at 0
- 59 All histograms have the following characteristics except _____
- A. show data grouped into intervals.
- B. The bars on a histogram should touch.
- C. show individual data points.
- D. The intervals in a histogram should have no gaps or overlaps in values.
- 60 All box plot have the following characteristics except _____
- A. Shows the maximum and minimum.
- B. Shows the most frequent number.
- C. Shows the median, lower quartile and upper quartile.
- D. Does not show the total number of individuals data or their exact value.
- 61 which question is statistical question
- a. Do you like the color yellow ?
- b. What is the name of your school ?
- c. What do the students of 6th grade prefer to eat for lunch ?

Units 6&7

Complete the following

- 1 The types of statistical questions are _____ and _____
- 2 The shape shows the set of data in form of intervals is _____
- 3 The mode of 6, 4, 2, 9, 4, 3, 7, 6, 4, 5, 4 is _____
- 4 The outlier value of the following data set is _____

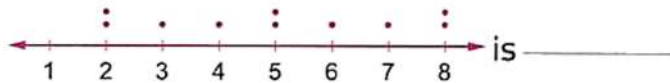
203
204
205
23
206
207
202
201
- 5 The range = _____ - _____
- 6 The median for the set of values : 15, 15, 17, 18, 19, 21, 22, 22, 23 is _____
- 7 The upper quartile of the values : 5, 6, 11, 10, 1 and 3 is _____
- 8 The average of 3, 4, 6, 6, 7, 8, 8 is _____
- 9 The balance of the following data set : 17, 18, 20, 20, 20, 21, 21, 21 and 22 is _____
- 10 The mean of the following data set [9, 11, 20, 15, 5] is _____
- 11 If the sum of seven numbers is 49, then the mean of these numbers is _____
- 12 If the mean of 3, 7, 4, 6, x is 5, then x = _____
- 13 _____ is the better measure of center for data set with no outlier values.
- 14 The mode of the opposite data set _____



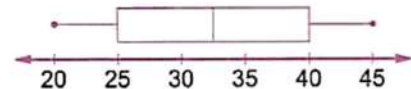
Units 6&7

Complete the following

- 16 The median of the following data which is represented by the dot plot



- 17 The box plot shows the data for the average weights of some students, then the upper quartile = _____



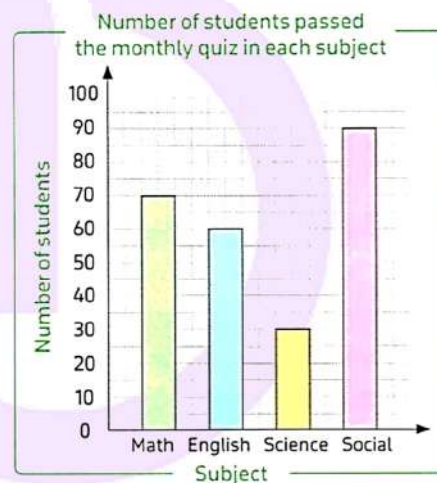
- 18 In the opposite dot plot the balance point is _____



Answer the following

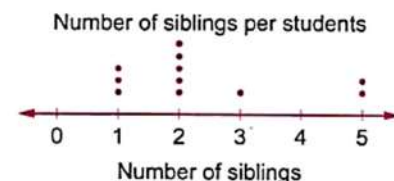
- 1 From the opposite bar graph answer the following questions :

- Write a statistical questions you have been asked to graph this bar graph.
- How many students passed in math quiz ?
- How many subjects have at least 60 students passed the quiz ?
- Which subject has the lowest number of students passed the quiz ?
- How many more students passed in social than in science ?



- 2 From the opposite dot plot answer the following questions.

- Write a statistical question you have been asked to draw this dot plot.
- How many students were surveyed ?
- How many students had 3 siblings ?
- How many students had more than 1 sibling ?
- How many students had 2 siblings or more ?
- How many students had less than 3 siblings ?



Units 6&7

Answer the following

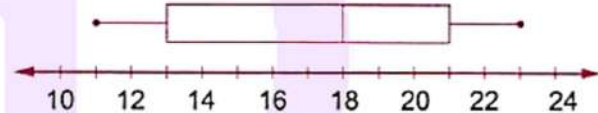
3 The opposite histogram shows the daily salary of workers in a factory,

- The total number of workers = _____
- The daily salary interval has maximum number of workers is _____
- The daily salary interval has minimum number of workers is _____
- The number of workers whose daily salary is 200 or more = _____
- The number of workers whose daily salary is less than 250 is _____



4 From the opposite box plot , complete :

- The minimum value = _____
- The maximum value = _____
- The median = _____
- The lower quartile = _____
- The upper quartile = _____

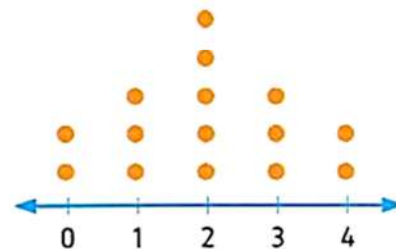


5 Find the 5-number summary of the following numbers and draw the box plot of these numbers.

14 , 5 , 18 , 10 , 4 , 13 , 12 , 16 , 7

6 By using the opposite dot plot find :

- The mean
- The median
- The mode
- The range



7 If Giovanni earns 200 L.E. , 150 L.E. and 250 L.E. from his salary. Find the mean earnings of Giovanni.

Units 6&7

Answer the following

- 8 The following table shows the daily wages of 50 workers of a company.

Sets	120 – 129	130 – 139	140 – 149	150 – 159	160 – 169
Frequency	8	10	16	12	4

Draw the histogram for this distribution.

- 9 The following table shows the marks of a group of students in an exam.

Marks	1	2	4	5	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Number of students	2	1	3	1	1	3	1	2	1	1	4	2	5	2	2	3	2	4

- Use a suitable intervals to draw a frequency table.
- Represent the frequency table using histogram.

- 10 The following data represents the ages of 30 workers in a company.

17	35	32	25	30	19	42	20	62	17
38	39	41	24	18	20	38	21	54	19
27	20	30	59	21	35	40	56	48	33

- Complete the table.
- Draw a histogram to represent this data.

Intervals	Frequency



The Answers

Choose the correct answer:

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. D | 2. B | 3. A | 4. A | 5. C |
| 6. C | 7. B | 8. D | 9. B | 10. B |
| 11. B | 12. A | 13. D | 14. C | 15. C |
| 16. D | 17. D | 18. C | 19. A | 20. C |
| 21. B | 22. D | 23. B | 24. A | 25. B |
| 26. D | 27. B | 28. B | 29. D | 30. C |
| 31. B | 32. D | 33. D | 34. C | 35. C |
| 36. C | 37. B | 38. C | 39. B | 40. C |
| 41. C | 42. C | 43. A | 44. C | 45. B |
| 46. B | 47. A | 48. D | 49. C | 50. C |
| 51. C | 52. A | 53. B | 54. C | 55. C |
| 56. B | 57. C | 58. D | 59. C | 60. B |
| 61. C | | | | |

Complete the following:

- | | |
|----------------------------------|--------------|
| 1) numerical , categorical | 2) histogram |
| 3) 4 | 4) 23 |
| 5) maximum value – minimum value | |
| 6) 19 | 7) 10 |
| 8) 6 | 9) 20 |
| 10) 12 | 11) 7 |
| 12) 5 | 13) mean |
| 14) 14 | 15) 7 |
| 16) 5 | 17) 40 |
| | 18) 4 |

The Answers

Answer the following:

1) a. what is the number of students passed the monthly quiz in each subject ?

b. 70 students

c. 3 subjects

d. science

e. $90 - 30 = 60$ students

2) a. what is the number of siblings of students ?

b. 11 students

c. 1 student

d. 8 students

e. 8 students

f. 8 students

3) a. 180 workers

b. 100-149

c. 50-99

d. 90 workers

e. 120 workers

4) a. 11

b. 23

c. 18

d. 13

e. 21

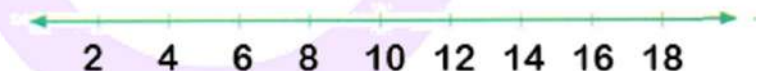
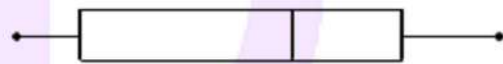
5) min. = 4

max. = 18

median = 12

Q1 = 6

Q3 = 15



6) a. 2

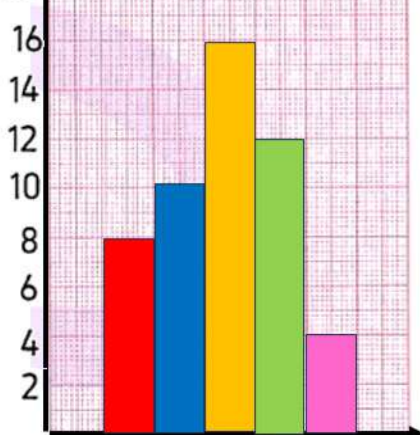
b. 2

c. 2

d. 4

7) 200

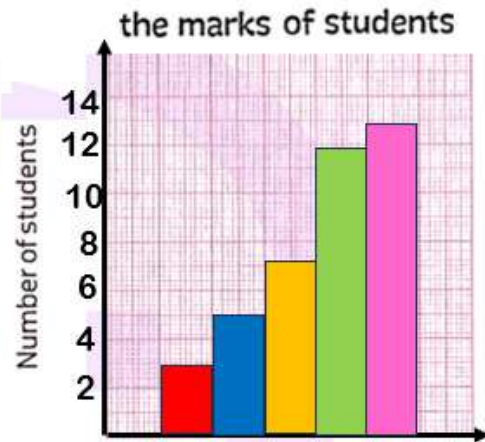
8) workers the daily wages



The Answers

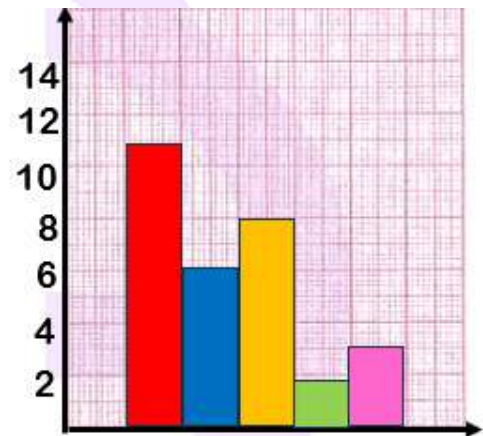
9)

Intervals	Frequency
0 - 3	3
4 - 7	5
8 - 11	7
12 - 15	12
16 - 20	13



10)

Intervals	Frequency
15 - 24	11
25 - 34	6
35 - 44	8
45 - 54	2
55 - 64	3



شرح خطوات الحل على قناة



Math For Kids: Hoda Ismail

حمل الآن

مجاناً وحصرياً

المراجعة رقم (5)

الترم الاول



Q1: Choose the correct answer

- 1 If the sum of 6 values equals 48, then the mean of these values is
- (a) 40 (b) 56 (c) 24 (d) 8
- 2 If the equation : $x - 3 = 1$, then $\frac{1}{2}x = \dots\dots\dots$
- (a) 1 (b) 2 (c) 3 (d) 4
- 3 The largest non-positive integer is
- (a) -1 (b) 1 (c) 0 (d) 1,000
- 4 The equation that expresses the rule "add 2 then multiply by 3" is
- (a) $y = 3x + 2$ (b) $y = 2x + 3$ (c) $y = 3(x + 2)$ (d) $y = 2(x + 3)$
- 5 In the equation : $y = 2x + 1$, if the output is 7, then the input is
- (a) 2 (b) 3 (c) 4 (d) 5
- 6 The number of terms of the expression: $5 - 2m - 3m + 4$ is
- (a) 2 (b) 3 (c) 4 (d) 5
- 7 If the median of $a + 1$, $a + 2$, $a + 3$ is 5, then $a = \dots\dots\dots$
- (a) 1 (b) 2 (c) 3 (d) 4
- 8 The best subset of the number 0 is a/an
- (a) counting (b) natural (c) integer (d) rational
- 9 If the upper quartile of the values: $k + 2$, $k + 3$, $k + 5$, $k + 4$, $k + 1$, where k is a positive integer is 15.5, then $k = \dots\dots\dots$
- (a) 7 (b) 9 (c) 8 (d) 11



10 If the equation : $x - 9 = 1$, then $\frac{1}{2}x = \dots\dots\dots$

- (a) 10 (b) 2 (c) 5 (d) 4

11 All integers are numbers.

- (a) counting (b) natural (c) prime (d) rational

12 The coefficients in the algebraic expression $7 + 2k + 8m + 1$ are

- (a) 7 , 2 (b) 2, 8 (c) 7 , 1 (d) 7 , 2 , 8 , 1

13 is divisible by 3.

- (a) 2,543 (b) 2,222 (c) 1,212 (d) 5,323

14 The integer which comes just next -4 is

- (a) -5 (b) 5 (c) -3 (d) 3

15 The number of integers on the number line is

- (a) 0 (b) 1 (c) 1,000 (d) infinite number

16 Which of the following is not a solution of $k > 3.5$?

- (a) 4 (b) 3.7 (c) 3.49 (d) 4.9

17 If the mean of the scores of five students is 20, then the sum of their

- (a) 4 (b) 25 (c) 15 (d) 100

18 If $y = 2x + 3$, and $x = 2$, then $y = \dots\dots\dots$.

- (a) 10 (b) 7 (c) 17 (d) 13

19 If the lower quartile of the values: $k + 2$, $k + 3$, $k + 5$, $k + 4$, $k + 6$, where k is a positive integer is 11.5, then $k = \dots\dots\dots$

- (a) 8 (b) 9 (c) 7 (d) 10



20 The number of integers included between -2 and 4 is

- (a) 3 (b) 4 (c) 5 (d) 6

21 The GCF of any two prime numbers is

- (a) 0 (b) 1 (c) 2 (d) 3

22 -5 is located to the right of the number on the number line.

- (a) -6 (b) 6 (c) -4 (d) 4

23 The smallest positive integer is

- (a) -1 (b) 1 (c) 0 (d) 1,000

24 If the mode of these value 5, 7, 2, 9, 5, 7, $x + 1$, 3 is 7 then $x =$

- (a) 7 (b) 5 (c) 6 (d) 4

25 The equation that expresses the relationship "subtract 5" is

- (a) $y = 5 - x$ (b) $y = 5x$ (c) $y = 5 + x$ (d) $y = x - 5$

26 $2\frac{3}{4} + \dots = 5\frac{1}{2}$

- (a) $2\frac{3}{4}$ (b) $2\frac{1}{2}$ (c) $3\frac{3}{4}$ (d) $3\frac{1}{2}$

27 The equation which represents the table

x	1	2	3
y	3	5	7

- (a) $y = x + 2$ (b) $Y = 2x$ (c) $y = 2x + 1$ (d) $y = 2x - 1$

28 If Murad is "k" years old now, how old will he be after 5 years?

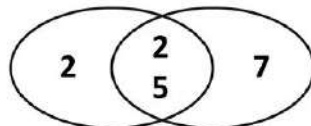
- (a) $5 - k$ (b) $k + 5$ (c) $k - 5$ (d) $5k$

29 In the equation : $y = 3x + 1$, the ordered pair (2, a) satisfies the equation, then $a =$

- (a) 5 (b) 6
(c) 7 (d) 8



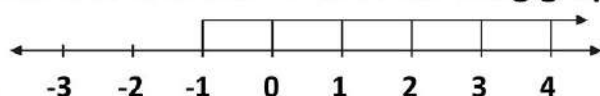
- 30** Which of the following are relatively prime numbers ?
 (a) 4 and 8 (b) 8 and 6 (c) 12 and 18 (d) 16 and 15
- 31** $9 \times 9 \times 9 \times 9 \times 9 = \dots\dots\dots$
 (a) 5×9 (b) 9^5 (c) 5^9 (d) 81×81
- 32** The value of the expression $(12 - x^3) \div 2$ when $x = 2$ is
 (a) 10 (b) 2 (c) 8 (d) 6
- 33** The negative number which has absolute value greater than 23 is
 (a) 24 (b) -25 (c) -13 (d) -23
- 34** $\dots\dots\dots \times (5 + 1) = (7 \times 5) + (7 \times 1)$
 (a) 6 (b) 35 (c) 1 (d) 7
- 35** The additive inverse of -12 is
 (a) $-|12|$ (b) $|-12|$ (c) -12 (d) -13
- 36** "m equals the product of n and 3" in equation is
 (a) $m = 3n$ (b) $m = 3 + n$ (c) $n = 3m$ (d) $n = m + 3$
- 37** are numerical data
 (a) blood type (b) birthplace (c) age (d) preferred colors
- 38** Any number is divisible by another if the remainder of the division operation is
 (a) 1 (b) 2 (c) 0 (d) 3
- 39** From the opposite venn diagram, the expression is
 (a) $10 (6 + 35)$ (b) $10 (2 + 7)$
 (c) $7 (10 + 2)$ (d) $2 (7 + 10)$



- 40 The greatest common factor of 6 and 8 is
- (a) 4 (b) 1 (c) 2 (d) 3
- 41 The values (5, 3, 2, 5, 2, 7) have
- (a) no mode (b) one modes (c) two modes (d) three modes
- 42 -7 the set of natural numbers.
- (a) belongs (b) doesn't belong (c) isn't a subset (d) a subset
- 43 $9\frac{3}{5} - 5\frac{1}{3} = \dots\dots\dots$
- (a) $14\frac{4}{15}$ (b) $4\frac{15}{4}$ (c) $4\frac{4}{15}$ (d) $15\frac{4}{5}$
- 44 The best graph to represent the number of students absent on a sunday is
- (a) bag graph (b) dot plots (c) histogram (d) otherwise
- 45 Any number is divisible by 3 if the sum of its digits is a multiple of
- (a) 2 (b) 3 (c) 5 (d) 6
- 46 An integer included between -4 and 2 is
- (a) -5 (b) -1 (c) 2 (d) 3
- 47 7 Cubed =
- (a) 7×7 (b) 3^7 (c) 7^3 (d) 49
- 48 The value of the expression $2 + 16 - 3b$ when $b = 4$ is
- (a) 4 (b) 2 (c) 6 (d) 10
- 49 is lying between -3.14 and -3.2
- (a) -3.18 (b) 3.18
(c) 3.3 (d) -3.3



- 50 Number of solutions of inequality $x > 10$ is
- (a) 0 (b) 1 (c) 2 (d) infinite
- 51 The lower quartile for the set of data : 72, 64, 79, 63, 60, 75, 70, 61, 77 is
- (a) 61 (b) 70 (c) 62 (d) 76
- 52 The equation that expresses the rule "multiply by 2 and then add 9" is
- (a) $y = 9x + 2$ (b) $y = 2(x + 9)$ (c) $y = 9(x + 2)$ (d) $y = 2x + 9$
- 53 The LCM of two relatively prime numbers is
- (a) 0 (b) their product (c) their sum (d) 1
- 54 All positive numbers are zero.
- (a) less than (b) greater than (c) equal to (d) otherwise
- 55 In the equation: $y = 3x + 6.4$, if $x = 1$, then y would be
- (a) 6.4 (b) 18.4 (c) 19.2 (d) 9.4
- 56 The best subset of the number -5.6 is a/an
- (a) counting (b) natural (c) integer (d) rational
- 57 If the mean of the values 3, 9, 4, x , 8 is 6, then the value of x is
- (a) 6 (b) 4 (c) 8 (d) 3
- 58 If the ones digit of a number is zero, then it is divisible by
- (a) 10 only (b) 5 only (c) 5 and 10 (d) 2, 5 and 10
- 59 is a solution of the following graphed inequality.



- (a) -10 (b) 10
(c) -2 (d) -3



- 60 The first step will you perform in $3 \times 5 + 3 (2^3 - 5) - 4 \div 2$ is
(a) parantheses (b) plus (c) multiply (d) exponent
- 61 Three squared =
(a) 2^3 (b) 3^3 (c) 3^2 (d) 2^2
- 62 If the range of a set of values is 11 and the smallest value is 7, then the largest value is
(a) 4 (b) 18 (c) 77 (d) 70
- 63 All the following are a numerical data, except the
(a) age (b) length (c) temperature (d) name
- 64 is a solution of the inequality $X > 15$.
(a) 15 (b) 12 (c) 1 (d) 20
- 65 If we subtract "x" from the number 9 , the result is
(a) $9 - x$ (b) $9 + x$ (c) $x - 9$ (d) $9x$
- 66 The coefficient of the algebraic expression: $5ab + 4$ is
(a) 2 (b) 3 (c) 4 (d) 5
- 67 All the following are measures of the central tendency, except
(a) mean (b) median (c) mode (d) range
- 68 The number of terms of the expression: $5 - 2m - 3m + 4$ is
(a) 2 (b) 3 (c) 4 (d) 5
- 69 Which of the following data sets hasn't any outlier?
(a) 20, 25, 27, 22, 2, 24, 28 (b) 5, 3, 27, 7, 9, 10, 12
(c) 53, 48, 52, 47, 4, 54, 59 (d) 5, 7, 3, 1, 9, 11, 6



70 The additive inverse of $| -8 |$ >

- ☐ a 5 ☐ b -10 ☐ c 7 ☐ d -4

71 Ayman bought 4 pens for x L.E, each and he paid 24 L.E. , then x =

- ☐ a 96 ☐ b 8 ☐ c 6 ☐ d 20

72 The additive inverse of $| -10 |$  -3

- ☐ a > ☐ b = ☐ c < ☐ d ≥

73 A number is no more than 10 can be written as

- ☐ a $n \leq 10$ ☐ b $n > 10$ ☐ c $n < 10$ ☐ d $n \geq 10$

74 The common factor of all numbers is

- ☐ a 0 ☐ b 1 ☐ c 2 ☐ d 3

75 The absolute values of any two opposite numbers are

- ☐ a different ☐ b equal ☐ c negative ☐ d otherwise

76 The best subset of the number -7 is a/an

- ☐ a counting ☐ b natural ☐ c integer ☐ d rational

77 A does not have vertical axis.

- ☐ a dot plot ☐ b bar graph ☐ c histogram ☐ d double bar graph

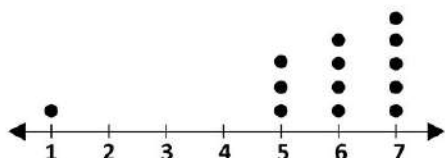
78 have a horizontal axis.

- ☐ a bar graph ☐ b histogram ☐ c box plot ☐ d all of the previous

79 The number of integer numbers between 3 and 6 is

- ☐ a 2 ☐ b 1
☐ c 0 ☐ d infinite number



- 80 If the sum of a set of values is 36, and the mean of these value is 4, then the number of these value is
- (a) 6 (b) 4 (c) 9 (d) 36
- 81 In 4^6 , 6 is called
- (a) base (b) factor (c) multiple (d) exponent
- 82 The first operation you preform in the expression $2(5 - 3) + 10$ is
- (a) exponent (b) subtract (c) multiply (d) add
- 83 " $k = 3 \div w$ " the independent variable is
- (a) w (b) k (c) 3 (d) otherwise
- 84 Ahmed deposit of 500 L.E in the bank represents as
- (a) -500 (b) 500 (c) -5,000 (d) 5,000
- 85 The number of integer numbers lying between $\frac{3}{5}$ and $\frac{20}{5}$ is
- (a) 0 (b) 2 (c) 3 (d) infinite
- 86 $8[3 + 5] = \dots\dots\dots$
- (a) $24 + 13$ (b) $3(8 + 5)$ (c) $24 + 40$ (d) $11 + 13$
- 87 The will be the best choice as a measure of central tendency in the opposite figure.
- (a) mean (b) median (c) Either
- 
- 88 Which of the following algebraic expressions is equivalent to $5(z - 2)$?
- (a) $5z - 2$ (b) $z - 10$ (c) $5z - 10$ (d) $5z + 10$
- 89 If the price of one shirt is 270 Egyptian pounds, then the price of m number of shirts is.....
- (a) 270 m (b) $270 \div m$
(c) $270 + m$ (d) $270 - m$



90 The value of the expression $3n - 2$ for $n = 7$ is

- (a) 14 (b) 19 (c) 21 (d) 23

91 If the values of data set start from 40 to 80, then the range of this data =

- (a) 60 (b) 40 (c) 120 (d) 80

92 The outlier of the following value (2, 5, 5, 3, 8, 6) is

- (a) 8 (b) 2 (c) 54 (d) none

93 What is the smallest number could be added to 56 to be divisible by 2, 5 and 10.

- (a) 5 (b) 2 (c) 3 (d) 4

94 What is your favorite school subject, Ahmed? is a question.

- (a) Statistical (b) Non-statistical

95 The mean of the values (4, 9, 7, 1, 1, 2) is

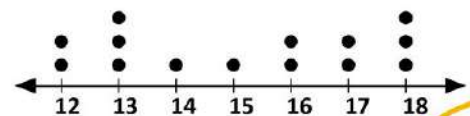
- (a) 4 (b) 2 (c) 3 (d) 24

96 Volume of a cube of edge length 5 cm is

- (a) 6×5 (b) 25 (c) 5^3 (d) 5^2

97 The will be the best choice as a measure of central tendency in the opposite figure.

- (a) mean (b) median (c) Either



98 9 and are relatively prime numbers

- (a) 18 (b) 12 (c) 21 (d) 8

99 The following expression represents the greatest number of baskets water and juice bottles respectively: $(10 \times 3) + (10 \times 5)$, then the number of all bottles in each basket is

- (a) 10 (b) 15
(c) 8 (d) 80



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100 Mosab bought x candies for 7 L.E. each He paid 35 L.E, then $x = \dots\dots\dots$

- (a) 42 (b) 5 (c) 7 (d) 28

101 In the equation : $y = 3x + 1$, if the output is 10, then the input is $\dots\dots\dots$

- (a) 2 (b) 4 (c) 5 (d) 6

102 The number $\dots\dots\dots$ is neither a positive nor a negative number.

- (a) 0 (b) 1 (c) -1 (d) 2

103 In the equation : $y = 2x + 1$, if the output is 7, then the input is $\dots\dots\dots$

- (a) 2 (b) 3 (c) 4 (d) 5

104 If $m + m + m + m = 32$, then $m = \dots\dots\dots$

- (a) 8 (b) 9 (c) 7 (d) 6

105 Which of the following represents an equation $\dots\dots\dots$

- (a) $x > 5$ (b) $y < 10$ (c) $m + 5 = 12$ (d) $z \geq 3$

106 Which of the following algebraic expressions is equivalent to $2(y + 4)$?

- (a) $2y + 4$ (b) $y + 8$ (c) $2y + 8$ (d) $y + 4 + 2$

107 The smallest Integer that satisfies the inequality $x \geq -6$, is $\dots\dots\dots$

- (a) -7 (b) -6 (c) -5 (d) 0

108 Which of the following represents an inequality $\dots\dots\dots$

- (a) $x + 7 = 15$ (b) $z = 213$ (c) $y < 12$ (d) $y - 3 = 10$

109 The value of a that satisfies the equation $a + 5 = 15$ is $\dots\dots\dots$

- (a) 3 (b) 5 (c) 10 (d) 15



- 110 In the equation : $y = 3x$, if $x = 5.1$, then y would be
- ☐ a 8.1 ☐ b 53.1 ☐ c 15.3 ☐ d 18.3
- 111 All of the following numbers are integers except
- ☐ a 7 ☐ b -2.5 ☐ c 0 ☐ d -3
- 112 A square of side length "m" cm, has perimeter of cm.
- ☐ a $m \div 4$ ☐ b $4m$ ☐ c $m - 4$ ☐ d $m + 4$
- 113 $(10 \times 3 - 8) - 5 \times (6 - 2) = \dots\dots\dots$
- ☐ a 8 ☐ b 0 ☐ c 2 ☐ d 68
- 114 If $3 \times m = 27$, Then the value of Third $m = \dots\dots\dots$
- ☐ a 3 ☐ b 9 ☐ c 27 ☐ d otherwise
- 115 The smallest number from the following is
- ☐ a -30 ☐ b -25 ☐ c -13 ☐ d -23
- 116 The number of rational numbers between 3 and 6 is
- ☐ a 2 ☐ b 1 ☐ c 0 ☐ d infinite number
- 117 The mean of the values (4, 9, 6, 1) is
- ☐ a 4 ☐ b 6 ☐ c 5 ☐ d 36
- 118 The algebraic expression that represents three times the sum of the number "m" and 7 is
- ☐ a $3m + 7$ ☐ b $3(m + 7)$ ☐ c $7m + 3$ ☐ d $7(m + 3)$
- 119 The inequality is a mathematical sentence that contains one of the signs
- ☐ a equals ☐ b expresion ☐ c variable ☐ d less than



120 The set of counting numbers the set of natural numbers.

- ☐ a belongs ☐ b doesn't belong ☐ c isn't a subset ☐ d a subset

121 The common multiple of all numbers is

- ☐ a 0 ☐ b 1 ☐ c 2 ☐ d 3

122 The value of the expression: $2x^2 - (3 \times 4 + 2^3) = \dots\dots\dots$ at $x = 5$

- ☐ a 30 ☐ b 50 ☐ c 35 ☐ d 40

123 Which of the following is an algebraic expression?

- ☐ a $3 + 5 \times 7$ ☐ b $27 - 12 \div 4$ ☐ c $5y + 2$ ☐ d $2(3 + 14)$

124 If the mean of 8, 6, x, 5 is 5, then value of $x = \dots\dots\dots$

- ☐ a 1 ☐ b 2 ☐ c 3 ☐ d 4

125 If $b = 10$, then $b - \dots\dots\dots = 4$.

- ☐ a 10 ☐ b 4 ☐ c 2 ☐ d 6

126 The constant in the expression $3y - 5$ is

- ☐ a 5 ☐ b -5 ☐ c 3 ☐ d -3

127 "m equals the quotient of n and 3" in equation is

- ☐ a $m = 3n$ ☐ b $m = n \div 3$ ☐ c $m = n - 3$ ☐ d $n = m + 3$

128 $(3^3 - 3^2) \div 3^2 = \dots\dots\dots$

- ☐ a 27 ☐ b 9 ☐ c 18 ☐ d 2

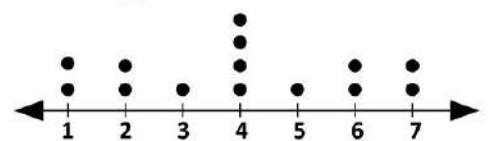
129 Laila bought a number of C sweets for 3 pounds per piece, and a number of M biscuits for 3 pounds per piece. The algebraic expression for this cost is

- ☐ a $3C + 10M$ ☐ b $10C + 3M$ ☐ c $3(C + M)$ ☐ d $13(C + M)$



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- 130 If the ones digit of a number is 5, then it is divisible by
 (a) 5 (b) 10 (c) 10 and 5 (d) otherwise
- 131 If the largest value is 18 and the least value is 6, then the range is
 (a) 12 (b) 24 (c) 3 (d) 78
- 132 In the equation : $9a + 24 = b$, the dependent variable is
 (a) 9 (b) a (c) 24 (d) b
- 133 The number -2.5 is a/an number.
 (a) counting (b) natural (c) integer (d) rational
- 134 The inequality that represents non-positive integers
 (a) $x > 0$ (b) $x < 0$ (c) $x \leq 0$ (d) $x \geq 0$
- 135 If Aseel is "m" years old now, how old will she be before 7 years?
 (a) $7 - m$ (b) $m + 7$ (c) $m - 7$ (d) $7m$
- 136 The will be the best choice as a measure of central tendency in the opposite figure.
 (a) mean (b) median (c) Either
- 137 The solution of the equation $x + 85 = 120$ in Z is
 (a) 30 (b) 35 (c) 40 (d) 45
- 138 Which display makes it easier to see the median?
 (a) histogram (b) box plot (c) dot plot (d) bar graph
- 139 is lying between -5.14 and -5.2
 (a) -5.18 (b) 5.18 (c) 5.3 (d) -5.3



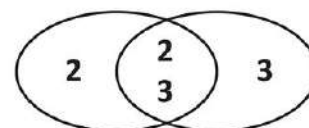
140 Two cubed subtracted from 4 squared =

- ☐ a $4^2 - 2^3$
☐ b $4 \times 2 - 2 \times 3$
☐ c $2^3 - 4^2$
☐ d $4^3 - 2^2$

141 The set of rational numbers the set of natural numbers.

- ☐ a belongs
 ☐ b doesn't belong
 ☐ c isn't a subset
 ☐ d a subset

142 The following expression represents the greatest number of bags can be made from mangos and bananas respectively, then the number of all bags is



- ☐ a 4
 ☐ b 9
 ☐ c 6
 ☐ d 36

143 The cost of renting a bicycle is R pounds per hour, and the cost of renting helmet is H pounds. If Sara rented a bicycle for 4 hours and a helmet, then the algebraic expression for this cost is

- ☐ a $4R + H$
☐ b $R + 4H$
☐ c $4(R + H) + 8$
☐ d $4R \times H$



Q2: Answer The Following

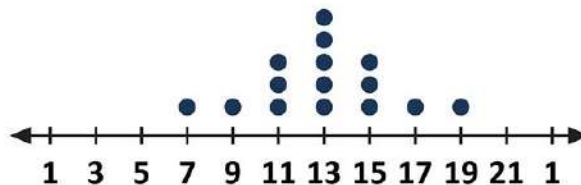
- 1 Find the five values for the data set 9, 15, 17, 11, 7, 8, then represent them with a box plot.

- 2 Write a rational number that lies between $\frac{5}{7}$ and $\frac{6}{7}$.

- 3 "4 increased by m" in algebraic expression is

- 4 By using the opposite dot plot find:

- a The mean:
b The median:
c The range:
d The mode:

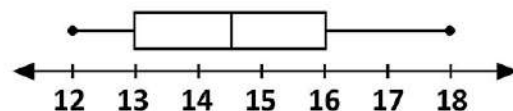


- 5 The inequality that represents natural numbers is

- 6 Write inequality that represents -6 and all values to the right of -6 on the number line

- 7 In the opposite box plot

- a The median =
b The range =



- 8 Arrange the following in descending order:

$$-\frac{2}{10}, 0.8, -\frac{1}{4}, 1, -3\frac{1}{2}$$

The order:,,,



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9 Find the value of the algebraic expression: $16 \div (10x - 3)$ when $x = 0.5$

10 If the rule is multiply by 6 and add 4, write the equation that expresses this using the two variables x and y , where x is the independent variable, and if $x = 4$, find the value of y ?

11 Find the value of the algebraic expression in each of the following:

a $5y^4 \times (8 \div y^{10}) + 5$ [for $y = 1$] **b** $6^2 \div 3 \times (a - 2)$ [For $a = 4$]

12 If $3y - 5 = 7$, then the value of $y = \dots\dots\dots$

13 If the range of a set is 20 and the smallest value is 9, then the largest values

14 The two numbers represented in the Venn diagram are: and

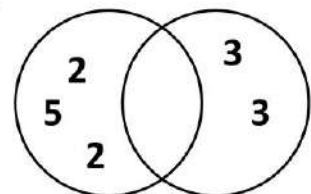
The common prime factors of the two numbers are

The GCF for the two numbers is

The LCM for the two numbers is

Are the two numbers relatively prime numbers?

(Yes or No)



15 In the equation: $y = 4x$, if $x = 5$ m, then $y = \dots\dots\dots$

16 The integer that express “ move forward 6 steps” is

17 0 to set of rational numbers.



18 Dalia wanted to divide some pounds among 6 children equally.
Write an algebraic expression expresses Dalia's situation.

19 Write 3 numbers that are both divisible by 2 and 5 together?

20 The ordered pair which satisfies the rule: $y = x + 3$ is (5 ,)

21 Hosam wants to buy some shoes, so the price of one shoes was 150 pounds and he has a coupon worth 50 pounds from the value of all purchases.
Write an algebraic expression to represent this situation,
then find how much Hossam will pay when he buys 3 shoes.

22 Find the value of the algebraic expression: $8 - 5(m^3 - 7)$ when $m = 2$

23 What is the integer that represents Ahmed's profit of 3,000 L.E in his business?

24 Arrange the following in ascending order:

$$7\frac{1}{2}, -1.8, -\frac{5}{7}, 8, -10$$

The order:,,,,

25 Represent the solution of the inequality in Z on the number-line: $x < -3$



26 Write a positive or negative integer that represents:
Emad withdrawing 450 pounds from the bank.

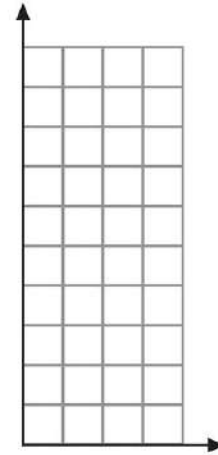


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27 Complete the following table, then make the graphs:

The equation: $y = 3(x - 1)$

x	1	2	3
y			
(x , y)	(..... ,)	(..... ,)	(..... ,)



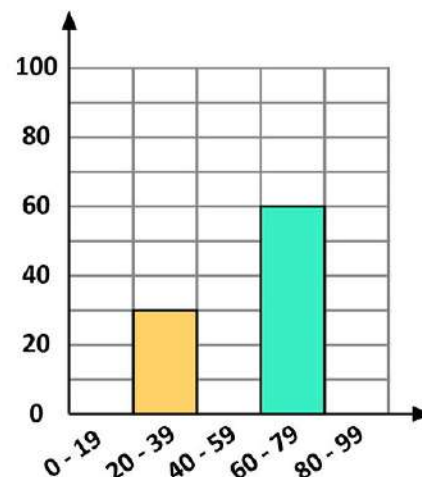
28 Express the following mathematical expression using a verbal sentence $18 - 2 \times n$

29 Find the LCM for the numbers 18 and 14

30 The value of the expression $2(2h - 2) + 5$ at $h = 2.5$ is

Use the opposite histogram to complete the table and the graph:

Intervals	Frequency
0 - 19	90
20 - 39	.....
40 - 59	30
60 - 79	.....
80 - 99	70



31 A farm produces number of eggs daily. Every 6 eggs are placed in one carton.
What is the dependent and independent variables?
write an equation represent this relation.

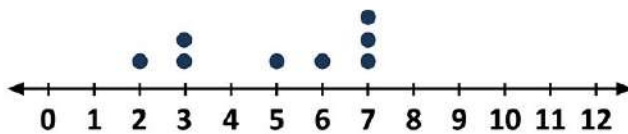


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32 In a car park, If there is an entrie fee is 10 L.E and every hour passed there for 20 L.E

- a) The algebraic expression express that is
- b) The cost of passing 6 hours is

33 By using the following dot plot, what is the mean by using blanced point



34 Mention the graph used to illustrate the five Values: Minimum, Maximum, Median, Upper Quartile, Lower Quartile?

35 Write a Rational number that lies between 2.1, 2.2

36 Find the mean of the values: 7, 4, 2, 8, 3, 6 using the algorithm.

37 A farmer grows new trees. The height of the tree increasing by 10 cm every month. What is the independent variable?

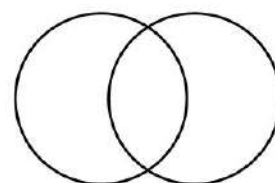
38 A merchant distributed 36 boxes of cheese and 45 cartons of juice equally into boxes. Find the largest number of boxes the merchant can use.



39 Malek has 200 L.E, his weekly pocket money he spends 20 L.E. daily.

- a The algebraic expression represent that is
- b The remained money after 5 days is
- c The remained money by the end of three weeks is

40 Find GCF and LCM of 12 and 18 by venn diagram

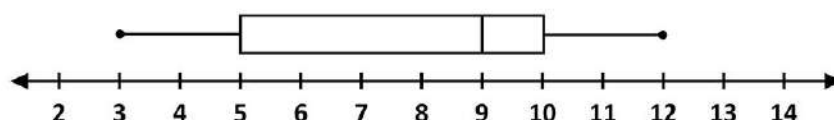


41 Find the missing: $\dots - 1\frac{5}{6} = 2\frac{5}{18}$

Solve the following equations:

- a $2m = 18$
- b $3m - 3 = 12$

42 Using the following box plot, identify the 5-point summary of the data set:



- a The Minimum Value:
- b The Lower Quartile:
- c Median:
- d The Upper Quartile:
- e The Maximum Value:

43 Use the order of mathematical operations to simplify: $40 \div 5 (2^3 - 5) - 10$

44 A number whose prime factors are 3, 3 and 5 is

45 If the mean of the values is 3, 4, 6, x, 7 is 6, then the value of x is

46 The additive inverse of -8 added to 5 is

47 What is a suitable graph to easily find the median?



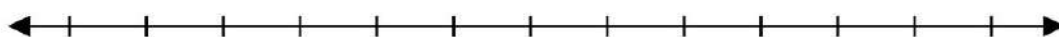
48 Double x added to 4 equals y as equation is

49 Find the result of $2\frac{3}{7} + 5\frac{1}{14} = \dots\dots\dots$

50 Check the following expression where each pair is equivalent or not.

$2(x + 1)$ and $2x + 1$ Use two values for x from your own

51 Draw a box plot for following groups of values: (7 , 8 , 3 , 5 , 9 , 1 , 3)



a The Minimum Value:

b The Lower Quartile:

c Median:

d The Upper Quartile:

e The Maximum Value:

52 In the opposite histogram.

How many students get more than 50 marks?

53 The smallest counting number is

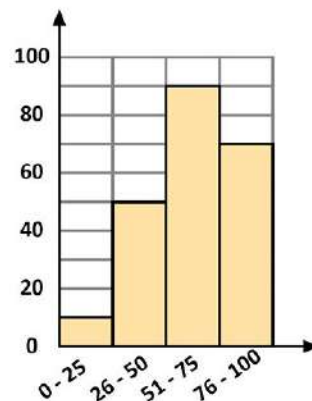
54 State three Integers possible solutions for the inequality $x \geq 8$

55 Determine the rule and the equation from the following table:

Input (x)	1	2	3	4	5
Output (y)	6	7	8	9	10

Rule :

Equation :



56 Identify both the dependent and independent variables in the equation: $y = 3x + 5$

57 The like terms in the expression : $2x + 3x + 3$ are



58 Ahmed runs for $4\frac{1}{3}$ hours a day, and Heba runs for $3\frac{4}{9}$ hours a day.
What is the difference between the time they both run?

59 Complete: **a** The set of integers the set of rational numbers
b 5.7 the set of rational numbers.

60 A teacher has 275 pens. Can they be distributed equally among 6 students without any remainder? Please state the reason.

61 The positive integers which less than 4 are

62 Arrange the following in ascending order:

$|-0.8|$, -2.8 , -0.8 , 0 , $|-17|$

The order: , , , ,

63 The value of the expression $2 \times (k^2 - 5)$ (when $k = 4$) is

64 Solve: $(2 + 4) \times 7 - 2^3 \div 8$

65 $7\frac{1}{6} - \frac{3}{4} = \dots\dots\dots$

66 Evaluate the expression: $7 + 3(x - 3)$ for $x = 3$

67 List three number are divisible by 2, 3 and 5: , ,

68 The algebraic expression for "a number less 7", is

69 Find two relatively prime such that their product is 36

70 Find the result of: $5\frac{3}{7} - 3\frac{2}{3} = \dots\dots\dots$



71 State the Suitable graph to answer, what is the most frequent interval?

72 Two alarms, one rings every 8 minutes and the other rings every 6 minutes. If they start working together, after how many minutes will they ring together again?

73 Write the algebraic expression that represents:
(the number 3 multiplied by x added 8 to this)

74 Write the mode for the set of values: 40, 29, 14, 28, 25, 14, 16, 25.

75 The median for the following set of data: 4, 13, 16, 15, 13, 11

76 Write the first quartile for the set of values: 7, 8, 1, 9, 11, 5, 2

77 Write 3 rational numbers that lie between 2.64 and 2.65

78 Find the largest value if the range is 8 and the smallest value is 29.

79 Find the value of the algebraic expression $y^3 - 7$ if $y=2$.

80 Mention two types of measures of central tendency



81 Find three solutions of the inequality $x > -2$ in the set of integers

82 Find the value of the numerical expression: $32 + 5 \times (12 - 6) - 3$

83 Ahmed goes to the gym every 3 days, and Mohammed goes every 2 days. If they meet today, after how many days will they meet again?

84 Mention 3 numbers that are divisible by both 2 and 3 together

85 Write the number with a base 4 and an exponent 5 in exponential form.

86 Write the amount that represents the price of a number of books. The price of one book is 50 pounds.

87 Using the following frequency table, answer the questions

Temperature	22 – 20	23 – 25	26 – 28	29 – 31	32 – 34
Frequency	5	8	10	11	7

- a) What is the total number of cities that recorded a temperature?
- b) How many cities had a temperature of 26 degrees or higher?
- c) How many cities had a temperature of less than 29 degrees?



88 The verbal expression for " $2m - 7$ " is

89 A product of a number K and 6 is 42, then $K =$

90 Do you like the red color? is a question

91 Write three solutions of the inequality: $m > 3$, and graph it

92 If $3y - 2 = 7$, in verbal form is

93 $2m + (4 + m^2) \div 5$, [for $m = 4$] equals

94 List 3 solutions of the inequality: $y \leq -3$, then graph it



95 The integer that expresses "the temperature is 7 below zero" is

96 If the rule is "add 5, then multiply by 3", then the equation is

97 The number that comes before -1 is

98 The prime number has only factor[s].

99 The number is neither a positive nor a negative number.

100 The verbal phrase for: $2y + 6 = 10$ is



Q1: Choose the correct answer

1 If the sum of 6 values equals 48, then the mean of these values is

a 40

b 56

c 24

d 8

2 If the equation : $x - 3 = 1$, then $\frac{1}{2}x = \dots\dots\dots$

a 1

b 2

c 3

d 4

3 The largest non-positive integer is

a -1

b 1

c 0

d 1,000

4 The equation that expresses the rule "add 2 then multiply by 3" is

a $y = 3x + 2$

b $y = 2x + 3$

c $y = 3(x + 2)$

d $y = 2(x + 3)$

5 In the equation : $y = 2x + 1$, if the output is 7, then the input is

a 2

b 3

c 4

d 5

6 The number of terms of the expression: $5 - 2m - 3m + 4$ is

a 2

b 3

c 4

d 5

7 If the median of $a + 1$, $a + 2$, $a + 3$ is 5, then $a = \dots\dots\dots$

a 1

b 2

c 3

d 4

8 The best subset of the number 0 is a/an

a counting

b natural

c integer

d rational

9 If the upper quartile of the values: $k + 2$, $k + 3$, $k + 5$, $k + 4$, $k + 1$, where k is a positive integer is 15.5, then $k = \dots\dots\dots$

a 7

b 9

c 8

d 11



10 If the equation : $x - 9 = 1$, then $\frac{1}{2}x = \dots\dots\dots$

a 10

b 2

c 5

d 4

11 All integers are numbers.

a counting

b natural

c prime

d rational

12 The coefficients in the algebraic expression $7 + 2k + 8m + 1$ are

a 7 , 2

b 2 , 8

c 7 , 1

d 7 , 2 , 8 , 1

13 is divisible by 3.

a 2,543

b 2,222

c 1,212

d 5,323

14 The integer which comes just next -4 is

a -5

b 5

c -3

d 3

15 The number of integers on the number line is

a 0

b 1

c 1,000

d infinite number

16 Which of the following is not a solution of $k > 3.5$?

a 4

b 3.7

c 3.49

d 4.9

17 If the mean of the scores of five students is 20, then the sum of their

a 4

b 25

c 15

d 100

18 If $y = 2x + 3$, and $x = 2$, then $y = \dots\dots\dots$.

a 10

b 7

c 17

d 13

19 If the lower quartile of the values: $k + 2$, $k + 3$, $k + 5$, $k + 4$, $k + 6$, where k is a positive integer is 11.5, then $k = \dots\dots\dots$

a 8

b 9

c 7

d 10



20 The number of integers included between -2 and 4 is

(a) 3

(b) 4

(c) 5

(d) 6

21 The GCF of any two prime numbers is

(a) 0

(b) 1

(c) 2

(d) 3

22 -5 is located to the right of the number on the number line.

(a) -6

(b) 6

(c) -4

(d) 4

23 The smallest positive integer is

(a) -1

(b) 1

(c) 0

(d) 1,000

24 If the mode of these value 5, 7, 2, 9, 5, 7, $x + 1$, 3 is 7 then $x =$

(a) 7

(b) 5

(c) 6

(d) 4

25 The equation that expresses the relationship "subtract 5" is

(a) $y = 5 - x$

(b) $y = 5x$

(c) $y = 5 + x$

(d) $y = x - 5$

26 $2\frac{3}{4} + \dots = 5\frac{1}{2}$

(a) $2\frac{3}{4}$

(b) $2\frac{1}{2}$

(c) $3\frac{3}{4}$

(d) $3\frac{1}{2}$

27 The equation which represents the table

x	1	2	3
y	3	5	7

(a) $y = x + 2$

(b) $Y = 2x$

(c) $y = 2x + 1$

(d) $y = 2x - 1$

28 If Murad is "k" years old now, how old will he be after 5 years?

(a) $5 - k$

(b) $k + 5$

(c) $k - 5$

(d) $5k$

29 In the equation : $y = 3x + 1$, the ordered pair (2, a) satisfies the equation, then a =

(a) 5

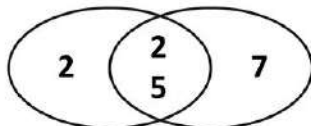
(b) 6

(c) 7

(d) 8



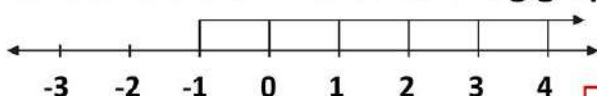
- 30** Which of the following are relatively prime numbers ?
☐ a 4 and 8 ☐ b 8 and 6 ☐ c 12 and 18 ☒ d 16 and 15
- 31** $9 \times 9 \times 9 \times 9 \times 9 = \dots\dots\dots$
☐ a 5×9 ☒ b 9^5 ☐ c 5^9 ☐ d 81×81
- 32** The value of the expression $(12 - x^3) \div 2$ when $x = 2$ is
☐ a 10 ☒ b 2 ☐ c 8 ☐ d 6
- 33** The negative number which has absolute value greater than 23 is
☐ a 24 ☒ b -25 ☐ c -13 ☐ d -23
- 34** $\dots\dots\dots \times (5 + 1) = (7 \times 5) + (7 \times 1)$
☐ a 6 ☐ b 35 ☐ c 1 ☒ d 7
- 35** The additive inverse of -12 is
☐ a $-|12|$ ☒ b $|-12|$ ☐ c -12 ☐ d -13
- 36** "m equals the product of n and 3" in equation is
☒ a $m = 3n$ ☐ b $m = 3 + n$ ☐ c $n = 3m$ ☐ d $n = m + 3$
- 37** are numerical data
☐ a blood type ☐ b birthplace ☒ c age ☐ d preferred colors
- 38** Any number is divisible by another if the remainder of the division operation is
☐ a 1 ☐ b 2 ☒ c 0 ☐ d 3
- 39** From the opposite venn diagram, the expression is
☐ a $10(6 + 35)$ ☒ b $10(2 + 7)$
☐ c $7(10 + 2)$ ☐ d $2(7 + 10)$



- 40 The greatest common factor of 6 and 8 is
☐ a 4 ☐ b 1 ☒ c 2 ☐ d 3
- 41 The values (5, 3, 2, 5, 2, 7) have
☐ a no mode ☐ b one modes ☒ c two modes ☐ d three modes
- 42 -7 the set of natural numbers.
☐ a belongs ☒ b doesn't belong ☐ c isn't a subset ☐ d a subset
- 43 $9\frac{3}{5} - 5\frac{1}{3} = \dots\dots\dots$
☐ a $14\frac{4}{15}$ ☐ b $4\frac{15}{4}$ ☒ c $4\frac{4}{15}$ ☐ d $15\frac{4}{5}$
- 44 The best graph to represent the number of students absent on a sunday is
☒ a bag graph ☐ b dot plots ☐ c histogram ☐ d otherwise
- 45 Any number is divisible by 3 if the sum of its digits is a multiple of
☐ a 2 ☒ b 3 ☐ c 5 ☐ d 6
- 46 An integer included between -4 and 2 is
☐ a -5 ☒ b -1 ☐ c 2 ☐ d 3
- 47 7 Cubed =
☐ a 7×7 ☐ b 3^7 ☒ c 7^3 ☐ d 49
- 48 The value of the expression $2 + 16 - 3b$ when $b = 4$ is
☐ a 4 ☐ b 2 ☒ c 6 ☐ d 10
- 49 is lying between -3.14 and -3.2
☒ a -3.18 ☐ b 3.18
☐ c 3.3 ☐ d -3.3



- 50 Number of solutions of inequality $x > 10$ is
- ☐ a 0 ☐ b 1 ☐ c 2 ☒ d infinite
- 51 The lower quartile for the set of data : 72, 64, 79, 63, 60, 75, 70, 61, 77 is
- ☐ a 61 ☐ b 70 ☒ c 62 ☐ d 76
- 52 The equation that expresses the rule "multiply by 2 and then add 9" is
- ☐ a $y = 9x + 2$ ☐ b $y = 2(x + 9)$ ☐ c $y = 9(x + 2)$ ☒ d $y = 2x + 9$
- 53 The LCM of two relatively prime numbers is
- ☐ a 0 ☒ b their product ☐ c their sum ☐ d 1
- 54 All positive numbers are zero.
- ☐ a less than ☒ b greater than ☐ c equal to ☐ d otherwise
- 55 In the equation: $y = 3x + 6.4$, if $x = 1$, then y would be
- ☐ a 6.4 ☐ b 18.4 ☐ c 19.2 ☒ d 9.4
- 56 The best subset of the number -5.6 is a/an
- ☐ a counting ☐ b natural ☐ c integer ☒ d rational
- 57 If the mean of the values 3, 9, 4, x , 8 is 6, then the value of x is
- ☒ a 6 ☐ b 4 ☐ c 8 ☐ d 3
- 58 If the ones digit of a number is zero, then it is divisible by
- ☐ a 10 only ☐ b 5 only ☐ c 5 and 10 ☒ d 2, 5 and 10
- 59 is a solution of the following graphed inequality.



- ☐ a -10 ☒ b 10 ☐ c -2 ☐ d -3



- 60 The first step will you perform in $3 \times 5 + 3 (2^3 - 5) - 4 \div 2$ is
☐ a parantheses ☐ b plus ☐ c multiply ☒ d exponent
- 61 Three squared =
☐ a 2^3 ☐ b 3^3 ☒ c 3^2 ☐ d 2^2
- 62 If the range of a set of values is 11 and the smallest value is 7, then the largest value is
☐ a 4 ☒ b 18 ☐ c 77 ☐ d 70
- 63 All the following are a numerical data, except the
☐ a age ☐ b length ☐ c temperature ☒ d name
- 64 is a solution of the inequality $X > 15$.
☐ a 15 ☐ b 12 ☐ c 1 ☒ d 20
- 65 If we subtract "x" from the number 9 , the result is
☒ a $9 - x$ ☐ b $9 + x$ ☐ c $x - 9$ ☐ d $9x$
- 66 The coefficient of the algebraic expression: $5ab + 4$ is
☐ a 2 ☐ b 3 ☐ c 4 ☒ d 5
- 67 All the following are measures of the central tendency, except
☐ a mean ☐ b median ☐ c mode ☒ d range
- 68 The number of terms of the expression: $5 - 2m - 3m + 4$ is
☐ a 2 ☐ b 3 ☒ c 4 ☐ d 5
- 69 Which of the following data sets hasn't any outlier?
☐ a 20, 25, 27, 22, 2, 24, 28 ☐ b 5, 3, 27, 7, 9, 10, 12
☐ c 53, 48, 52, 47, 4, 54, 59 ☒ d 5, 7, 3, 1, 9, 11, 6



70 The additive inverse of $|-8|$ is

- ☐ a 5 ☒ b -10 ☐ c 7 ☐ d -4

71 Ayman bought 4 pens for x L.E, each and he paid 24 L.E. , then $x =$

- ☐ a 96 ☐ b 8 ☒ c 6 ☐ d 20

72 The additive inverse of $|-10|$ is

- ☐ a $>$ ☐ b $=$ ☒ c $<$ ☐ d $\geq$

73 A number is no more than 10 can be written as

- ☒ a $n \leq 10$ ☐ b $n > 10$ ☐ c $n < 10$ ☐ d $n \geq 10$

74 The common factor of all numbers is

- ☐ a 0 ☒ b 1 ☐ c 2 ☐ d 3

75 The absolute values of any two opposite numbers are

- ☐ a different ☒ b equal ☐ c negative ☐ d otherwise

76 The best subset of the number -7 is a/an

- ☐ a counting ☐ b natural ☒ c integer ☐ d rational

77 A does not have vertical axis.

- ☒ a dot plot ☐ b bar graph ☐ c histogram ☐ d double bar graph

78 have a horizontal axis.

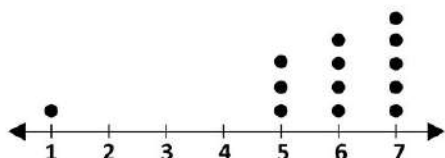
- ☐ a bar graph ☐ b histogram ☐ c box plot ☒ d all of the previous

79 The number of integer numbers between 3 and 6 is

- ☒ a 2 ☐ b 1 ☐ c 0 ☐ d infinite number

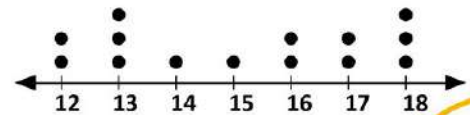


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- 80 If the sum of a set of values is 36, and the mean of these value is 4, then the number of these value is
- ☐ a 6 ☐ b 4 ☒ c 9 ☐ d 36
- 81 In 4^6 , 6 is called
- ☐ a base ☐ b factor ☐ c multiple ☒ d exponent
- 82 The first operation you preform in the expression $2(5 - 3) + 10$ is
- ☐ a exponent ☒ b subtract ☐ c multiply ☐ d add
- 83 " $k = 3 \div w$ " the independent variable is
- ☒ a w ☐ b k ☐ c 3 ☐ d otherwise
- 84 Ahmed deposit of 500 L.E in the bank represents as
- ☐ a -500 ☒ b 500 ☐ c -5,000 ☐ d 5,000
- 85 The number of integer numbers lying between $\frac{3}{5}$ and $\frac{20}{5}$ is
- ☐ a 0 ☐ b 2 ☒ c 3 ☐ d infinite
- 86 $8[3 + 5] = \dots\dots\dots$
- ☐ a $24 + 13$ ☐ b $3(8 + 5)$ ☒ c $24 + 40$ ☐ d $11 + 13$
- 87 The will be the best choice as a measure of central tendency in the opposite figure.
- ☐ a mean ☒ b median ☐ c Either
- 
- 88 Which of the following algebraic expressions is equivalent to $5(z - 2)$?
- ☐ a $5z - 2$ ☐ b $z - 10$ ☒ c $5z - 10$ ☐ d $5z + 10$
- 89 If the price of one shirt is 270 Egyptian pounds, then the price of m number of shirts is.....
- ☒ a $270m$ ☐ b $270 \div m$
☐ c $270 + m$ ☐ d $270 - m$



- 90 The value of the expression $3n - 2$ for $n = 7$ is
- ☐ a 14 ☒ b 19 ☐ c 21 ☐ d 23
- 91 If the values of data set start from 40 to 80, then the range of this data =
- ☐ a 60 ☒ b 40 ☐ c 120 ☐ d 80
- 92 The outlier of the following value (2, 5, 5, 3, 8, 6) is
- ☐ a 8 ☐ b 2 ☐ c 54 ☒ d none
- 93 What is the smallest number could be added to 56 to be divisible by 2, 5 and 10.
- ☐ a 5 ☐ b 2 ☐ c 3 ☒ d 4
- 94 What is your favorite school subject, Ahmed? is a question.
- ☐ a Statistical ☒ b Non-statistical
- 95 The mean of the values (4, 9, 7, 1, 1, 2) is
- ☒ a 4 ☐ b 2 ☐ c 3 ☐ d 24
- 96 Volume of a cube of edge length 5 cm is
- ☐ a 6×5 ☐ b 25 ☒ c 5^3 ☐ d 5^2
- 97 The will be the best choice as a measure of central tendency in the opposite figure.
- ☒ a mean ☐ b median ☐ c Either
- 98 9 and are relatively prime numbers
- ☐ a 18 ☐ b 12 ☐ c 21 ☒ d 8
- 99 The following expression represents the greatest number of baskets water and juice bottles respectively: $(10 \times 3) + (10 \times 5)$, then the number of all bottles in each basket is
- ☐ a 10 ☒ b 15 ☐ c 8 ☐ d 80



100 Mosab bought x candies for 7 L.E. each He paid 35 L.E, then $x = \dots\dots\dots$

☐ a 42

☒ b 5

☐ c 7

☐ d 28

101 The ordered pair which satisfies the rule: $y = 2x + 1$ is (2 ,)

☐ a 2

☐ b 4

☒ c 5

☐ d 6

102 The number is neither a positive nor a negative number.

☒ a 0

☐ b 1

☐ c -1

☐ d 2

103 In the equation : $y = 3x + 1$, if the output is 10, then the input is

☐ a 2

☒ b 3

☐ c 4

☐ d 5

104 If $m + m + m + m = 32$, then $m = \dots\dots\dots$

☒ a 8

☐ b 9

☐ c 7

☐ d 6

105 Which of the following represents an equation

☐ a $x > 5$

☐ b $y < 10$

☒ c $m + 5 = 12$

☐ d $z \geq 3$

106 Which of the following algebraic expressions is equivalent to $2(y + 4)$?

☐ a $2y + 4$

☐ b $y + 8$

☒ c $2y + 8$

☐ d $y + 4 + 2$

107 The smallest Integer that satisfies the inequality $x \geq -6$, is

☐ a -7

☒ b -6

☐ c -5

☐ d 0

108 Which of the following represents an inequality

☐ a $x + 7 = 15$

☐ b $z = 213$

☒ c $y < 12$

☐ d $y - 3 = 10$

109 The value of a that satisfies the equation $a + 5 = 15$ is

☐ a 3

☐ b 5

☒ c 10

☐ d 15



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- 110 In the equation : $y = 3x$, if $x = 5.1$, then y would be
- ☐ a 8.1 ☐ b 53.1 ☒ c 15.3 ☐ d 18.3
- 111 All of the following numbers are integers except
- ☐ a 7 ☒ b -2.5 ☐ c 0 ☐ d -3
- 112 A square of side length "m" cm, has perimeter of cm.
- ☐ a $m \div 4$ ☒ b $4m$ ☐ c $m - 4$ ☐ d $m + 4$
- 113 $(10 \times 3 - 8) - 5 \times (6 - 2) = \dots\dots\dots$
- ☐ a 8 ☐ b 0 ☒ c 2 ☐ d 68
- 114 If $3 \times m = 27$, Then the value of Third $m = \dots\dots\dots$
- ☒ a 3 ☐ b 9 ☐ c 27 ☐ d otherwise
- 115 The smallest number from the following is
- ☒ a -30 ☐ b -25 ☐ c -13 ☐ d -23
- 116 The number of rational numbers between 3 and 6 is
- ☐ a 2 ☐ b 1 ☐ c 0 ☒ d infinite number
- 117 The mean of the values (4, 9, 6, 1) is
- ☐ a 4 ☐ b 6 ☒ c 5 ☐ d 36
- 118 The algebraic expression that represents three times the sum of the number "m" and 7 is
- ☐ a $3m + 7$ ☒ b $3(m + 7)$ ☐ c $7m + 3$ ☐ d $7(m + 3)$
- 119 The inequality is a mathematical sentence that contains one of the signs
- ☐ a equals ☐ b expresion ☐ c variable ☒ d less than



120 The set of counting numbers the set of natural numbers.

- ☐ a belongs ☐ b doesn't belong ☐ c isn't a subset ☒ d a subset

121 The common multiple of all numbers is

- ☒ a 0 ☐ b 1 ☐ c 2 ☐ d 3

122 The value of the expression: $2x^2 - (3 \times 4 + 2^3) = \dots\dots\dots$ at $x = 5$

- ☒ a 30 ☐ b 50 ☐ c 35 ☐ d 40

123 Which of the following is an algebraic expression?

- ☐ a $3 + 5 \times 7$ ☐ b $27 - 12 \div 4$ ☒ c $5y + 2$ ☐ d $2(3 + 14)$

124 If the mean of 8, 6, x, 5 is 5, then value of $x = \dots\dots\dots$

- ☒ a 1 ☐ b 2 ☐ c 3 ☐ d 4

125 If $b = 10$, then $b - \dots\dots\dots = 4$.

- ☐ a 10 ☐ b 4 ☐ c 2 ☒ d 6

126 The constant in the expression $3y - 5$ is

- ☐ a 5 ☒ b -5 ☐ c 3 ☐ d -3

127 "m equals the quotient of n and 3" in equation is

- ☐ a $m = 3n$ ☒ b $m = n \div 3$ ☐ c $m = n - 3$ ☐ d $n = m + 3$

128 $(3^3 - 3^2) \div 3^2 = \dots\dots\dots$

- ☐ a 27 ☐ b 9 ☐ c 18 ☒ d 2

129 Laila bought a number of C sweets for 3 pounds per piece, and a number of M biscuits for 3 pounds per piece. The algebraic expression for this cost is

- ☐ a $3C + 10M$ ☐ b $10C + 3M$ ☒ c $3(C + M)$ ☐ d $13(C + M)$



130 If the ones digit of a number is 5, then it is divisible by

- ☒ a 5 ☐ b 10 ☐ c 10 and 5 ☐ d otherwise

131 If the largest value is 18 and the least value is 6, then the range is

- ☒ a 12 ☐ b 24 ☐ c 3 ☐ d 78

132 In the equation : $9a + 24 = b$, the dependent variable is

- ☐ a 9 ☐ b a ☐ c 24 ☒ d b

133 The number -2.5 is a/an number.

- ☐ a counting ☐ b natural ☐ c integer ☒ d rational

134 The inequality that represents non-positive integers

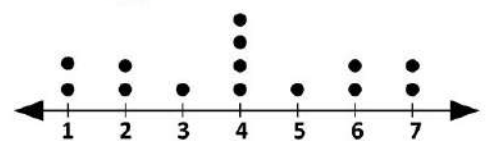
- ☐ a $x > 0$ ☐ b $x < 0$ ☒ c $x \leq 0$ ☐ d $x \geq 0$

135 If Aseel is "m" years old now, how old will she be before 7 years?

- ☐ a $7 - m$ ☐ b $m + 7$ ☒ c $m - 7$ ☐ d $7m$

136 The will be the best choice as a measure of central tendency in the opposite figure.

- ☐ a mean ☐ b median ☒ c Either



137 The solution of the equation $x + 85 = 120$ in Z is

- ☐ a 30 ☒ b 35 ☐ c 40 ☐ d 45

138 Which display makes it easier to see the median?

- ☐ a histogram ☒ b box plot ☐ c dot plot ☐ d bar graph

139 is lying between -5.14 and -5.2

- ☒ a -5.18 ☐ b 5.18 ☐ c 5.3 ☐ d -5.3



Follow for More!

140 Two cubed subtracted from 4 squared =

☒ $4^2 - 2^3$

☐ $4 \times 2 - 2 \times 3$

☐ $2^3 - 4^2$

☐ $4^3 - 2^2$

141 The set of rational numbers the set of natural numbers.

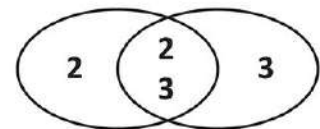
☐ belongs

☐ doesn't belong

☒ isn't a subset

☐ a subset

142 The following expression represents the greatest number of bags can be made from mangos and bananas respectively, then the number of all bags is



☐ 4

☐ 9

☒ 6

☐ 36

143 The cost of renting a bicycle is R pounds per hour, and the cost of renting helmet is H pounds. If Sara rented a bicycle for 4 hours and a helmet, then the algebraic expression for this cost is

☒ $4R + H$

☐ $R + 4H$

☐ $4(R + H) + 8$

☐ $4R \times H$



Q2: Answer The Following

- 1 Find the five values for the data set 9, 15, 17, 11, 7, 8, then represent them with a box plot.

Min: 7, Max: 17, Median: 10, Q1: 8, Q3: 15

- 2 Write a rational number that lies between $\frac{5}{7}$ and $\frac{6}{7}$.

$\frac{11}{14}$

- 3 "4 increased by m" in algebraic expression is $4 + m$

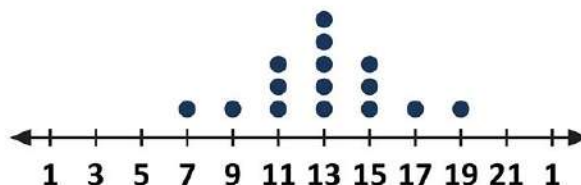
- 4 By using the opposite dot plot find:

a The mean: 13

b The median: 13

c The range: 12

d The mode: 13



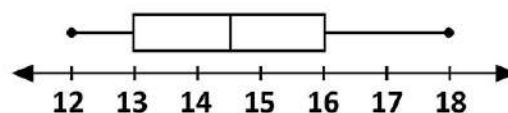
- 5 The inequality that represents natural numbers is $x \geq 0$

- 6 Write inequality that represents -6 and all values to the right of -6 on the number line $x \geq -6$

- 7 In the opposite box plot

a The median = 14.5

b The range = 6



- 8 Arrange the following in descending order:

$-\frac{3}{10}$, 0.8 , $-\frac{4}{4}$, 1 , $-3\frac{5}{2}$

The order: , , , ,



9 Find the value of the algebraic expression: $16 \div (10x - 3)$ when $x = 0.5$

8

10 If the rule is multiply by 6 and add 4, write the equation that expresses this using the two variables x and y , where x is the independent variable, and if $x = 4$, find the value of y ?

$$y = 6x + 4, y = 28$$

11 Find the value of the algebraic expression in each of the following:

a $5y^4 \times (8 \div y^{10}) + 5$ [for $y = 1$] b $6^2 \div 3 \times (a - 2)$ [For $a = 4$]

45

24

12 If $3y - 5 = 7$, then the value of $y = \dots\dots\dots$

4

13 If the range of a set is 20 and the smallest value is 9, then the largest values

29

14 The two numbers represented in the Venn diagram are: and

20

9

The common prime factors of the two numbers are

none

The GCF for the two numbers is

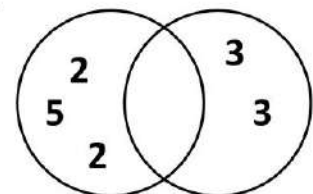
1

The LCM for the two numbers is

180

Are the two numbers relatively prime numbers?

(Yes or No)



15 In the equation: $y = 4x$, if $x = 5$ m, then $y = \dots\dots\dots$

20

16 The integer that express "move forward 6 steps" is

6

17 0 belongs to set of rational numbers.



Follow for More!

- 18 Dalia wanted to divide some pounds among 6 children equally.
Write an algebraic expression expresses Dalia's situation.

$$m \div 6$$

- 19 Write 3 numbers that are both divisible by 2 and 5 together?

10, 20, 30

- 20 The ordered pair which satisfies the rule: $y = x + 3$ is (5 ,)

8

- 21 Hosam wants to buy some shoes, so the price of one shoes was 150 pounds and he has a coupon worth 50 pounds from the value of all purchases.
Write an algebraic expression to represent this situation,
then find how much Hossam will pay when he buys 3 shoes.

$$150m - 50$$

Value of 3 shoes: 400 L.E

- 22 Find the value of the algebraic expression: $8 - 5(m^3 - 7)$ when $m = 2$

3

- 23 What is the integer that represents Ahmed's profit of 3,000 L.E in his business?

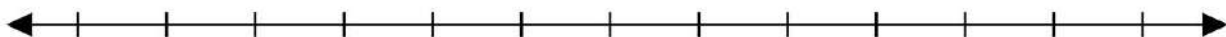
3,000

- 24 Arrange the following in ascending order:

$$7\frac{4}{2}, -1.8, -\frac{5}{7}, 8, -10$$

The order: , , , ,

- 25 Represent the solution of the inequality in Z on the number-line: $x < -3$



- 26 Write a positive or negative integer that represents:

Emad withdrawing 450 pounds from the bank. -450

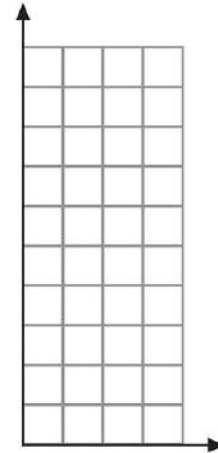


Follow for More!

27 Complete the following table, then make the graphs:

The equation: $y = 3(x - 1)$

x	1	2	3
y	 0	 3	 6
(x , y)	(1, 0)	(2, 3)	(3, 6)



28 Express the following mathematical expression using a verbal sentence $18 - 2 \times n$

Twice number (n) less than 18

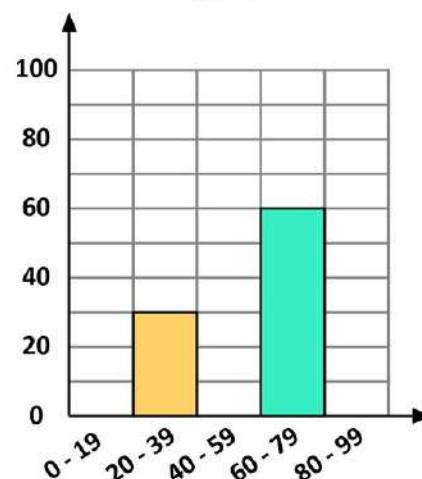
29 Find the LCM for the numbers 18 and 14

LCM: 126

30 The value of the expression $2(2h - 2) + 5$ at $h = 2.5$ is**11**.....

Use the opposite histogram to complete the table and the graph:

Intervals	Frequency
0 - 19	90
20 - 39	 30
40 - 59	30
60 - 79	 60
80 - 99	70



31 A farm produces number of eggs daily. Every 6 eggs are placed in one carton.

What is the dependent and independent variables?

write an equation represent this relation.

Dependant: number of cartoons

Independant: number of eggs

$$y = x \div 6$$



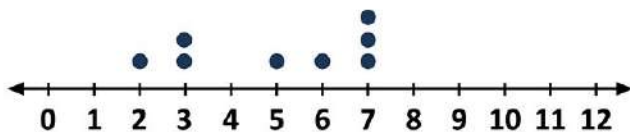
Follow for More!

32 In a car park, If there is an entrie fee is 10 L.E and every hour passed there for 20 L.E

a The algebraic expression express that is $20H + 10$

b The cost of passing 6 hours is 130 L.E

33 By using the following dot plot, what is the mean by using blanced point



5

34 Mention the graph used to illustrate the five Values: Minimum, Maximum, Median, Upper Quartile, Lower Quartile?

Box Plot

35 Write a Rational number that lies between 2.1, 2.2

2.15

36 Find the mean of the values: 7, 4, 2, 8, 3, 6 using the algorithm.

5

37 A farmer grows new trees. The height of the tree increasing by 10 cm every month. What is the independent variable?

number of months

38 A merchant distributed 36 boxes of cheese and 45 cartons of juice equally into boxes. Find the largest number of boxes the merchant can use.

Largest Number of boxes (GCF) = 9



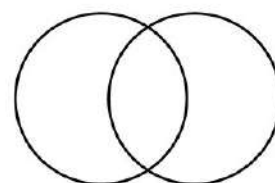
Follow for More!

39 Malek has 200 L.E, his weekly pocket money he spends 20 L.E. daily.

- a The algebraic expression represent that is $200 - 20d$
- b The remained money after 5 days is 100 L.E
- c The remained money by the end of three weeks is 180 L.E

40 Find GCF and LCM of 12 and 18 by venn diagram

GCF: 6, LCM: 26

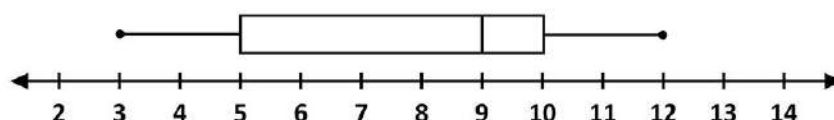


41 Find the missing: $4\frac{2}{9}$ - $1\frac{5}{6}$ = $2\frac{5}{18}$

Solve the following equations:

- a $2m = 18$
9
- b $3m - 3 = 12$
5

42 Using the following box plot, identify the 5-point summary of the data set:



- a The Minimum Value: 3
- b The Lower Quartile: 5
- c Median: 9
- d The Upper Quartile: 10
- e The Maximum Value: 12

43 Use the order of mathematical operations to simplify: $40 \div 5 (2^3 - 5) - 10$

14

44 A number whose prime factors are 3, 3 and 5 is 45

45 If the mean of the values is 3, 4, 6, x, 7 is 6, then the value of x is 10

46 The additive inverse of -8 added to 5 is 13

47 What is a suitable graph to easily find the median?
Box Plot



Follow for More!

48 Double x added to 4 equals y as equation is $y = 2x + 4$

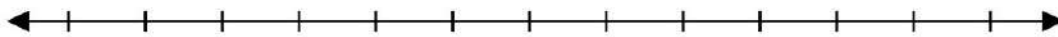
49 Find the result of $2\frac{3}{7} + 5\frac{1}{14} = \dots\dots\dots 7\frac{1}{2}$

50 Check the following expression where each pair is equivalent or not.

$2(x + 1)$ and $2x + 1$ Use two values for x from your own

Not equal

51 Draw a box plot for following groups of values: (7 , 8 , 3 , 5 , 9 , 1 , 3)



a The Minimum Value: 1

b The Lower Quartile: 3

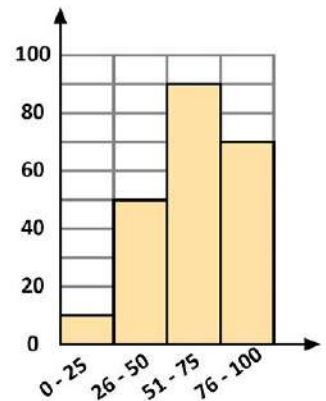
c Median: 5

d The Upper Quartile: 8

e The Maximum Value: 9

52 In the opposite histogram.

How many students get more than 50 marks? 160



53 The smallest counting number is 1

54 State three Integers possible solutions for the inequality $x \geq 8$ $10, 12, 8$

55 Determine the rule and the equation from the following table:

Input (x)	1	2	3	4	5
Output (y)	6	7	8	9	10

Rule : $\text{add } 5$

Equation : $y = x + 5$

56 Identify both the dependent and independent variables in the equation: $y = 3x + 5$

Independent : x, Dependant: y

57 The like terms in the expression : $2x + 3x + 3$ are $2x, 3x$



Follow for More!

- 58 Ahmed runs for $4\frac{1}{3}$ hours a day, and Heba runs for $3\frac{4}{9}$ hours a day.
What is the difference between the time they both run?

$$\frac{8}{9}$$

- 59 Complete: (a) The set of integers **subset** the set of rational numbers
(b) 5.7 **belongs** the set of rational numbers.

- 60 A teacher has 275 pens. Can they be distributed equally among 6 students without any remainder? Please state the reason.

No, Because 275 is not divisible by 6

- 61 The positive integers which less than 4 are **3, 2, 1**

- 62 Arrange the following in ascending order:

⁴ $|-0.8|$, ¹ -2.8 , ² -0.8 , ³ 0 , ⁵ $|-17|$

The order: , , , ,

- 63 The value of the expression $2 \times (k^2 - 5)$ (when $k = 4$) is **22**

- 64 Solve: $(2 + 4) \times 7 - 2^3 \div 8$

$$41$$

- 65 $7\frac{1}{6} - \frac{3}{4} = \dots\dots\dots$ **$6\frac{5}{12}$**

- 66 Evaluate the expression: $7 + 3(x - 3)$ for $x = 3$ **7**

- 67 List three number are divisible by 2, 3 and 5: **30** , **60** , **90**

- 68 The algebraic expression for "a number less 7", is **$x - 7$**

- 69 Find two relatively prime such that their product is 36

$$9, 4$$

- 70 Find the result of: $5\frac{3}{7} - 3\frac{2}{3} = \dots\dots\dots$ **$1\frac{16}{21}$**



71 State the Suitable graph to answer, what is the most frequent interval?

Histogram

72 Two alarms, one rings every 8 minutes and the other rings every 6 minutes. If they start working together, after how many minutes will they ring together again?

24 minutes

73 Write the algebraic expression that represents:
(the number 3 multiplied by x added 8 to this)

$3x + 8$

74 Write the mode for the set of values: 40, 29, 14, 28, 25, 14, 16, 25.

14, 25

75 The median for the following set of data: 4, 13, 16, 15, 13, 11

13

76 Write the first quartile for the set of values: 7, 8, 1, 9, 11, 5, 2

2

77 Write 3 rational numbers that lie between 2.64 and 2.65

2.641 , 2.642, 2.643

78 Find the largest value if the range is 8 and the smallest value is 29.

37

79 Find the value of the algebraic expression $y^3 - 7$ if $y=2$.

1

80 Mention two types of measures of central tendency

Mean , Median



81 Find three solutions of the inequality $x > -2$ in the set of integers

1, 6, 10

82 Find the value of the numerical expression: $32 + 5 \times (12 - 6) - 3$

59

83 Ahmed goes to the gym every 3 days, and Mohammed goes every 2 days. If they meet today, after how many days will they meet again?

6 days

84 Mention 3 numbers that are divisible by both 2 and 3 together

6, 12, 18

85 Write the number with a base 4 and an exponent 5 in exponential form.

4^5

86 Write the amount that represents the price of a number of books. The price of one book is 50 pounds.

50m

87 Using the following frequency table, answer the questions

Temperature	22 – 20	23 – 25	26 – 28	29 – 31	32 – 34
Frequency	5	8	10	11	7

a) What is the total number of cities that recorded a temperature? 41

b) How many cities had a temperature of 26 degrees or higher? 28

c) How many cities had a temperature of less than 29 degrees? 23



88 The verbal expression for " $2m - 7$ " is **twice number (m) less 7**

89 A product of a number K and 6 is 42, then $K = \dots\dots\dots$ **7**

90 Do you like the red color? is a **Non-statstical** question

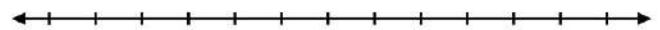
91 Write three solutions of the inequality: $m > 3$, and graph it **7, 8, 10**

92 If $3y - 2 = 7$, in verbal form is **3 times number (y) less 2 equals 7**

93 $2m + (4 + m^2) \div 5$, [for $m = 4$] equals **12**

94 List 3 solutions of the inequality: $y \leq -3$, then graph it

-3, -5, -7



95 The integer that expresses "the temperature is 7 below zero" is **-7**

96 If the rule is "add 5, then multiply by 3", then the equation is **$y = (x + 5) \times 3$**

97 The number that comes before -1 is **-2**

98 The prime number has only **2** factor[s].

99 The number **0** is neither a positive nor a negative number.

100 The verbal phrase for: $2y + 6 = 10$ is **twice number (y) added to 6 equals 10**



حمل الآن

مجانا وحصريا

المراجعة رقم (6)

الترم الاول



Question (1) Choose the correct answer.

1) Which of the following is divisible by 2.

- A) 49 B) 854 C) 677 D) 999

2) Which of the following is divisible by 3.

- A) 457 B) 874 C) 677 D) 999

3) Which of the following is divisible by 4.

- A) 454 B) 872 C) 678 D) 942

4) Which of the following is divisible by 5.

- A) 456 B) 871 C) 672 D) 995

5) Which of the following is divisible by 6.

- A) 456 B) 872 C) 674 D) 993

6) Which of the following is divisible by 10.

- A) 456 B) 872 C) 674 D) 990

7) Which of the following is divisible by 2 and 5.

- A) 456 B) 872 C) 670 D) 991

8) Which of the following is divisible by 3 and 5.

- A) 435 B) 872 C) 670 D) 991

9) Which of the following is divisible by 2, 3 and 10.

- A) 854 B) 753 C) 660 D) 980

10) All numbers can divided by

- A) 0 B) 1 C) 2 D) 3

11) 2 is a

A) Prime number

B) Composite number

C) Neither

12) 3 is a

A) Prime number

B) Composite number

C) Neither

13) 8 is a

A) Prime number

B) Composite number

C) Neither

14) 1 is a

A) Prime number

B) Composite number

C) Neither

15) 0 is a

A) Prime number

B) Composite number

C) Neither

16) 33 is a

A) Prime number

B) Composite number

C) Neither

17) 67 is a

A) Prime number

B) Composite number

C) Neither

18) 91 is a

A) Prime number

B) Composite number

C) Neither

19) The smallest prime number is

A) 1

B) 2

C) 3

D) 5

20) The smallest odd prime number is

A) 1

B) 2

C) 3

D) 5

21) The only even prime number is

A) 1

B) 2

C) 3

D) 5

22) The common factor for all numbers is

- A) 1 B) 2 C) 3 D) 0

23) The G.C.F of 4 and 6 is

- A) 1 B) 2 C) 3 D) 5

24) The G.C.F of 12 and 6 is

- A) 10 B) 4 C) 6 D) 3

25) The G.C.F of 16 and 24 is

- A) 10 B) 4 C) 6 D) 8

26) The G.C.F of 25 and 30 is

- A) 10 B) 7 C) 5 D) 3

27) The common multiple for all numbers is

- A) 1 B) 2 C) 3 D) 0

28) The L.C.M of 4 and 6 is

- A) 12 B) 8 C) 18 D) 24

29) The L.C.M of 12 and 6 is

- A) 12 B) 8 C) 18 D) 24

30) The L.C.M of 8 and 12 is

- A) 12 B) 8 C) 18 D) 24

31) The L.C.M of 15 and 30 is

- A) 10 B) 15 C) 25 D) 30

32) $\frac{3}{5} + \frac{2}{5} = \dots\dots\dots$

- A) $\frac{5}{4}$ B) $\frac{5}{5}$ C) $\frac{6}{5}$ D) $\frac{4}{5}$

33) $\frac{2}{7} + \frac{2}{7} = \dots\dots\dots$

A) $\frac{5}{7}$

B) $\frac{3}{7}$

C) $\frac{4}{7}$

D) $\frac{6}{7}$

34) $\frac{3}{5} - \frac{2}{5} = \dots\dots\dots$

A) $\frac{1}{5}$

B) $\frac{2}{5}$

C) $\frac{3}{5}$

D) $\frac{4}{5}$

35) $\frac{2}{7} - \frac{2}{7} = \dots\dots\dots$

A) $\frac{0}{7}$

B) $\frac{1}{7}$

C) $\frac{2}{7}$

D) $\frac{3}{7}$

36) $1 + \frac{2}{7} = \dots\dots\dots$

A) $\frac{5}{7}$

B) $\frac{6}{7}$

C) $\frac{4}{7}$

D) $\frac{9}{7}$

37) $3\frac{1}{3} + 4\frac{2}{3} = \dots\dots\dots$

A) $7\frac{2}{3}$

B) $7\frac{1}{3}$

C) $8\frac{1}{3}$

D) 8

38) $2\frac{4}{5} + 4\frac{2}{5} = \dots\dots\dots$

A) $7\frac{2}{5}$

B) $7\frac{1}{5}$

C) $8\frac{1}{5}$

D) $8\frac{2}{5}$

39) $3\frac{1}{3} - 1\frac{1}{3} = \dots\dots\dots$

A) $2\frac{2}{3}$

B) $1\frac{1}{3}$

C) $1\frac{1}{3}$

D) 2

40) $4\frac{3}{6} - 1\frac{1}{6} = \dots\dots\dots$

A) $2\frac{2}{6}$

B) $3\frac{2}{6}$

C) $1\frac{1}{6}$

D) $2\frac{1}{6}$

41) $\frac{1}{2} + \frac{1}{3} = \dots\dots\dots$

A) $\frac{5}{6}$

B) $\frac{5}{5}$

C) $\frac{6}{5}$

D) $\frac{2}{5}$

42) $\frac{2}{3} + \frac{3}{4} = \dots\dots\dots$

A) $\frac{5}{7}$

B) $\frac{6}{12}$

C) $\frac{5}{12}$

D) $\frac{17}{12}$

43) $\frac{2}{3} - \frac{1}{5} = \dots\dots\dots$

A) $\frac{13}{15}$

B) $\frac{7}{15}$

C) $\frac{1}{2}$

D) $\frac{4}{5}$

44) $\frac{5}{6} - \frac{3}{4} = \dots\dots\dots$

A) $\frac{19}{12}$

B) $\frac{8}{12}$

C) $\frac{1}{12}$

D) $\frac{2}{2}$

45) The smallest natural number is

A) 1

B) 2

C) 3

D) 0

46) The smallest counting number is

A) 1

B) 2

C) 3

D) 0

47) The smallest non-negative integer number is

A) 1

B) 2

C) -1

D) 0

48) In integer numbers the number 0 comes just before is

A) 1

B) 2

C) -1

D) 0

49) In integer numbers the number 0 comes just after is

A) 1

B) 2

C) -1

D) 0

50) In integer numbers the number -7 comes just before is

A) 6

B) -6

C) -8

D) 8

51) 6 set of counting numbers.

A) belong

B) not belong

C) subset

D) not subset

52) Set of counting numbers set of natural numbers.

- A) belong B) not belong C) subset D) not subset

53) 0 set of counting numbers.

- A) belong B) not belong C) subset D) not subset

54) 0 set of natural numbers.

- A) belong B) not belong C) subset D) not subset

55) Set of natural numbers set of counting numbers.

- A) belong B) not belong C) subset D) not subset

56) Set of natural numbers set of integer numbers.

- A) belong B) not belong C) subset D) not subset

57) -1 set of natural numbers.

- A) belong B) not belong C) subset D) not subset

58) Set of integer numbers set of natural numbers.

- A) belong B) not belong C) subset D) not subset

59) Set of natural numbers set of integer numbers.

- A) belong B) not belong C) subset D) not subset

60) -8 set of integer numbers.

- A) belong B) not belong C) subset D) not subset

61) -0.7 set of integer numbers.

- A) belong B) not belong C) subset D) not subset

62) Set of integer numbers set of rational numbers.

- A) belong B) not belong C) subset D) not subset

63) $\frac{-3}{2}$ set of rational numbers.

A) belong B) not belong C) subset D) not subset

64) 0 set of rational numbers.

A) belong B) not belong C) subset D) not subset

65) $\frac{5}{7}$ $\frac{7}{5}$

A) > B) < C) =

66) $\frac{-12}{7}$ $\frac{8}{5}$

A) > B) < C) =

67) $2\frac{2}{7}$ $1\frac{7}{3}$

A) > B) < C) =

68) $1\frac{15}{8}$ $-2\frac{9}{5}$

A) > B) < C) =

69) $3\frac{1}{2}$ $2\frac{3}{2}$

A) > B) < C) =

70) -7 -4

A) > B) < C) =

71) $|-7|$ $|-4|$

A) > B) < C) =

72) $-|-7|$ $|-4|$

A) > B) < C) =

73) $3 \times 3 \times 3 \times 3 =$

A) 12 B) 3×4 C) 3^3 D) 3^4

74) $10 \div 5 - (3^2 - 2^3)^2 = \dots\dots\dots$

A) 1

B) 0

C) -1

D) 2

75) $3 \times 4 - 12 \div 3 = \dots\dots\dots$

A) 8

B) 0

C) 24

D) -24

76) $2^6 \div 8 - 6 - 3 \div 3 = \dots\dots\dots$

A) 30

B) $-\frac{1}{3}$

C) 1

D) 0

77) $7 - [10 - (-8)] + 11 = \dots\dots\dots$

A) 1

B) 0

C) 16

D) 17

78) $[3 \times 5 - 7] - [3^2 - (-8)] + 3^2 = \dots\dots\dots$

A) 1

B) 0

C) 16

D) -2

79) $5 \times 8 - 10 \div \frac{1}{2} - 20 = \dots\dots\dots$

A) 1

B) 0

C) 16

D) 15

80) $3^2 + 5 - 3 \times 7 + 5 = \dots\dots\dots$

A) 2

B) 0

C) -2

D) 82

81) $(2^2 + 6) \times 5 - 7^2 = \dots\dots\dots$

A) 1

B) 0

C) 16

D) 17

82) $\frac{5^3 - (4 \times 6 + 1)}{4^2 - 2 \times 3} = \dots\dots\dots$

A) 12

B) 10

C) 15

D) 17

83) $(3^3 + 3) \div 10 = \dots\dots\dots$

A) 1

B) 0

C) 3

D) 2

84) $(8^2 \div 4) \div 8 - 2 = \dots\dots\dots$

A) 1

B) 0

C) 16

D) 17

85) $4x = 20$, then $x = \dots\dots\dots$

- A) 4 B) 6 C) 5 D) 7

86) $a + 8 = 15$, then $a = \dots\dots\dots$

- A) 8 B) 9 C) 7 D) 10

87) $y + 5 = 1$, then $y = \dots\dots\dots$

- A) 6 B) 3 C) 4 D) -4

88) $2b = 6$, then $b = \dots\dots\dots$

- A) 3 B) 4 C) 8 D) 5

89) If $2a = 4$, Then $3a - 4 = \dots\dots\dots$

- A) 3 B) 2 C) 1 D) 4

90) If $5b = 30$, Then $6b = \dots\dots\dots$

- A) 32 B) 34 C) 36 D) 38

91) If $15mn = 45$, Then $8mn - 4 = \dots\dots\dots$

- A) 20 B) 25 C) 35 D) 30

92) Which of the following are numerical data

- A) name B) weight C) blood type D) nationality

93) Which of the following are numerical data

- A) color B) address C) blood type D) length

94) Which of the following are categorical data

- A) age B) weight C) length D) color

95) Which of the following are categorical data

- A) age B) weight C) name D) length

96) is the best way to show individual data.

A) Dot plot

B) Box plot

C) Histogram

97) is the best way to show total number of individual data.

A) Dot plot

B) Box plot

C) Histogram

98) is the best way to show maximum and minimum value.

A) Dot plot

B) Box plot

C) Histogram

99) is the best way to show peaks, gaps, cluster and outlier.

A) Dot plot

B) Box plot

C) Histogram

100) is the best way to show spread of the data in each quarter.

A) Dot plot

B) Box plot

C) Histogram

101) is the best way to answer statistical questions related to groups data.

A) Dot plot

B) Box plot

C) Histogram

102) is the best way to show the distribution, spread and 5-number summary.

A) Dot plot

B) Box plot

C) Histogram

103) is the best way to show the set of data in form of interval.

A) Dot plot

B) Box plot

C) Histogram

104) is the best way to answer statistical questions related to individual data.

A) Dot plot

B) Box plot

C) Histogram

105) The value which lies outside most of the other values in a set of data is called

A) mean

B) median

C) mode

D) outlier

106) is the value which occurs most often.

- A) mean B) median C) mode D) outlier

107) The outlier has great effect on the

- A) mean B) median C) mode D) outlier

108) The outlier has weak effect on the

- A) mean B) median C) mode D) outlier

109) If the outlier values are greater than the other value then the outlier the mean.

- A) increase B) doesn't effect on C) decrease

110) If the outlier values are smaller than the other value then the outlier the mean.

- A) increase B) doesn't effect on C) decrease

111) If the data in the dot plot stay the same then the stay the same.

- A) mean B) median C) mode D) outlier

112) If the outlier on the left side of the dot plot graph, then the outlier the mean.

- A) increase B) doesn't effect on C) decrease

113) If the outlier on the right side of the dot plot graph, then the outlier the mean.

- A) increase B) doesn't effect on C) decrease

114) Is the middle value for a set of values after arranging it.

- A) mean B) median C) mode D) outlier

Question (2) Complete the Following.

- 1) All numbers except zero are divisible by
- 2) Find three numbers divisible by 2
- 3) Find three numbers divisible by 3
- 4) Find three numbers divisible by 4
- 5) Find three numbers divisible by 5
- 6) Find three numbers divisible by 6
- 7) Find three numbers divisible by 10
- 8) Find three numbers divisible by 2 and 3
- 9) Find three numbers divisible by 6, 5
- 10) Find three numbers divisible by 3, 5 and 10
- 11) The smallest prime number is
- 12) The smallest odd prime number is
- 13) The only even prime number is
- 14) The common factor for all numbers is
- 15) The G.C.F of 2 and 3 is
- 16) The G.C.F of 3 and 6 is
- 17) The G.C.F of 4 and 9 is
- 18) List five multiples of 3
- 19) List five multiples of 5
- 20) The common multiple for all numbers is
- 21) The L.C.M of 5 and 6 is

22) The L.C.M of 8 and 6 is

23) The L.C.M of 8 and 10 is

24) The L.C.M of 9 and 3 is

25) $\frac{3}{10} + \frac{2}{10} = \dots\dots\dots$

26) $\frac{4}{7} + \frac{5}{7} = \dots\dots\dots$

27) $\frac{6}{8} - \frac{2}{8} = \dots\dots\dots$

28) $\frac{2}{3} - \frac{2}{3} = \dots\dots\dots$

29) $1 + \frac{5}{5} = \dots\dots\dots$

30) $2\frac{1}{7} + 4\frac{2}{7} - 5\frac{2}{7} = \dots\dots\dots$

31) $2\frac{4}{7} + 8\frac{2}{7} = \dots\dots\dots$

32) $3\frac{5}{3} - 3\frac{2}{3} + 2\frac{1}{3} = \dots\dots\dots$

33) $3\frac{5}{6} - 1\frac{5}{6} = \dots\dots\dots$

34) $\frac{2}{5} + \frac{3}{4} = \dots\dots\dots$

35) $\frac{3}{7} + \frac{1}{3} = \dots\dots\dots$

36) $\frac{5}{6} + \frac{3}{8} = \dots\dots\dots$

37) $\frac{6}{7} - \frac{1}{4} = \dots\dots\dots$

38) $\frac{4}{5} - \frac{3}{4} = \dots\dots\dots$

39) $\frac{7}{8} - \frac{2}{3} = \dots\dots\dots$

40) The smallest natural number is

- 41) The smallest counting number is
- 42) The smallest non-negative integer number is
- 43) In integer numbers the number -2 comes just before is
- 44) In integer numbers the number -6 comes just after is
- 45) In integer numbers the number -10 comes just before is
- 46) The integers between -2 and 1 is
- 47) The integers between -5 and 3 is
- 48) The integers between -1 and 1 is
- 49) The integers between -4 and 4 is
- 50) 50 set of counting numbers.
- 51) Set of counting numbers set of natural numbers.
- 52) -3 set of counting numbers.
- 53) -6 set of natural numbers.
- 54) Set of natural numbers set of counting numbers.
- 55) Set of natural numbers set of integer numbers.
- 56) 0 set of natural numbers.
- 57) Set of integer numbers set of natural numbers.
- 58) Set of natural numbers set of integer numbers.
- 59) -4 set of integer numbers.
- 60) -1.8 set of integer numbers.
- 61) Set of integer numbers set of rational numbers.
- 62) $\left| \frac{-9}{13} \right|$ set of rational numbers.
- 63) 0 set of rational numbers.

64) $\frac{3}{2}$ $\frac{3}{4}$

65) $\frac{-10}{7}$ $\frac{4}{3}$

66) $|\frac{-2}{7}|$ $-|\frac{2}{7}|$

67) $\frac{20}{8}$ $\frac{-9}{5}$

68) $\frac{1}{2}$ $\frac{-3}{2}$

69) $\frac{-1}{2}$ $\frac{-3}{2}$

70) $\frac{15+18}{18-15} = \dots\dots\dots$

71) $\frac{13 \times 2 - 6 + 4}{9 - 4} = \dots\dots\dots$

72) $[7^2 - 6^2] \div [3^2 - (-4)] + 3^2 = \dots\dots\dots$

73) $6 \times 7 - 10 \div \frac{1}{2} - 30 = \dots\dots\dots$

74) $8^2 + 4 - [(3 \times 7) + 7^2] = \dots\dots\dots$

75) $(2^2 + 6) \times 5 - 7^2 = \dots\dots\dots$

76) $\frac{4^3 - (4 \times 6)}{6^2} = \dots\dots\dots$

77) $[[[(5^3 + 3) \div 4] \div 4] \div 4] = \dots\dots\dots$

78) $2 [(5^2 + 1) - (4^2 - 1)] = \dots\dots\dots$

79) $8q + 1 = 25$, then $q = \dots\dots\dots$

80) $4 + 2v = 10$, then $v = \dots\dots\dots$

81) $3k - 1 = 8$, then $k = \dots\dots\dots$

82) $2b = 12$, then $b = \dots\dots\dots$

- 83) The is the middle value of a set of values after arranging it ascendingly or descendingly.
- 84) The median for 4 , 8 , 6 , 9 , 4 , 8 is
- 85) The median for 12 , 10 , 15 , 8 , 14 , 16 , 13 is
- 86) is the middle value of the lower half of the set of values.
- 87) is the middle value of the upper half of the set of values.
- 88) is the best way to show individual data.
- 89) is the best way to show total number of individual data.
- 90) is the best way to show maximum and minimum value.
- 91) is the best way to show peaks, gaps, cluster and outlier.
- 92) is the best way to show spread of the data in each quarter.
- 93) is the best way to answer statistical questions related to groups data.
- 94) is the best way to show the distribution, spread and 5-number summary.
- 95) is the best way to show the set of data in form of interval.
- 96) is the best way to answer statistical questions related to individual data.
- 97) The mean = _____
- 98) The value which lies outside most of the other values in a set of data is called
- 99) is the value which occurs most often.
- 100) The outlier has great effect on the
- 101) The outlier has weak effect on the

- 102) If the outlier values are greater than the other value then the outlier the mean.
- 103) If the outlier values are smaller than the other value then the outlier the mean.
- 104) If the data in the dot plot stay the same then the stay the same.
- 105) If the outlier on the left side of the dot plot graph, then the outlier the mean.
- 106) If the outlier on the right side of the dot plot graph, then the outlier the mean.
- 107) Mean, Median and mode are measure of
- 108) is a measure of central tendency changed more with outlier.
- 109) Is the better choice of central tendency measures for a data set with outlier values.
- 110) Is the middle value for a set of values after arranging it.
- 111) The range =

Question (3) Essay problems.

The number	Divisible by 2	Divisible by 3	Divisible by 4	Divisible by 5	Divisible by 6	Divisible by 10
165						
864						
762						
439						

880						
234						

2) Find the prime factorization and the G.C.F for each of the following.

A) 8 and 16

.....

.....

.....

.....

B) 27 and 36

.....

.....

.....

.....

C) 24 and 36

.....

.....

.....

.....

D) 45 and 63

.....

.....

.....

.....

E) 39 and 65

.....

.....

F) 33 and 66

3) Find the prime factorization and the L.C.M for each of the following.

A) 10 and 12

B) 15 and 10

C) 24 and 12

D) 8 and 9

.....

.....

.....

.....

E) 6 , 10 , 15

.....

.....

.....

.....

.....

.....

.....

F) 9 , 12 , 18

.....

.....

.....

.....

.....

.....

.....

4) Find the G.C.F and L.C.M by using Venn diagram.

A) 18 and 16.

.....

.....

.....

.....

B) 21 and 36.

.....

.....

.....

.....

C) 24 and 18.

.....

.....

.....

.....

D) 45 and 63

.....

.....

.....

.....

5) Use the distributive property and G.C.F to write expressions of each of the following.

A) $15 + 35$.

.....

B) $14 + 28$.

.....

C) $56 + 63$.

.....

D) $42 + 72$.

.....

E) $18 + 48$.

.....

F) $27 + 36$.

.....

G) $64 + 48$.

.....

H) $45 + 30$.

.....

6) Omar and Abdulrahman bought two rice with milk plates, Omar ate $\frac{5}{8}$ of his plate and Abdulrahman ate $\frac{5}{10}$ of his one, find the rest in everyone plate.

.....

.....

.....

7) Samah cooked a cupcake for bad luck she drooped $\frac{2}{10}$ of it and she ate $\frac{4}{10}$ of it, Find the rest fraction of the cupcake.

.....

.....

.....

8) Mazid have 3 hours if he studied Math for $\frac{3}{4}$ h and English for $\frac{7}{12}$ h and he played football in the remaining time, Find how many hours he will play.

.....

.....

.....

10) Sara bought 3.784 kg of apple and 4.564 kg of orange, find the total weight of what she bought.

.....

.....

.....

11) Order each of the following in ascendingly.

A) 7 , -5 , 4 , -6 , 9 , -13.

.....

B) 0 , -8 , 9 , -12 , 7 , -13 , 15.

.....

C) 8 , -6 , 6 , $|-12|$, 9 , 3 , 0.

.....

D) 15 , -25 , 23 , $-|-30|$, 19 , 0.

.....

12) Order each of the following in descendingly.

A) 18 , -24 , 26 , 21 , -30 , -29.

.....

B) 31 , 0 , -32 , 28 , -35 , 16.

.....

C) 16 , -34 , 51 , -46 , -99 , 0.

.....

D) 45 , -61 , 83 , 0 , 77 , -99.

.....

13) Write the given rational number in the form $\frac{a}{b}$.

A) $2\frac{15}{8} = \dots\dots\dots$

C) $4\frac{3}{8} = \dots\dots\dots$

B) $7\frac{22}{5} = \dots\dots\dots$

D) $3\frac{5}{6} = \dots\dots\dots$

14) Represent each of the following on the number line.

A) $\frac{3}{8}$ and $\frac{7}{8}$.



.....

B) $\frac{-4}{9}$ and $\frac{2}{9}$.



.....

C) $\frac{-4}{7}$ and $\frac{3}{7}$.



.....

D) $\frac{7}{10}$ and $\frac{2}{10}$.



.....

14) Order each of the following in ascending order.

A) $\frac{2}{5}, \frac{-5}{5}, \frac{3}{5}, \frac{-7}{5}, \frac{10}{5}, \frac{1}{5}$

.....

B) $\frac{2}{1}, \left| \frac{-2}{5} \right|, \frac{-2}{7}, \frac{2}{2}, \frac{2}{3}, \frac{-2}{9}$

.....

C) $\frac{-1}{9}, \frac{5}{9}, \frac{4}{9}, \frac{-7}{9}, \frac{-6}{9}, \frac{3}{9}$

.....

15) Order each of the following in descending order.

A) $\frac{2}{7}, \frac{-4}{7}, \frac{11}{7}, \frac{7}{7}, \frac{-1}{7}, \frac{-10}{7}$

.....

B) $-\left| \frac{4}{5} \right|, \frac{4}{3}, \frac{-4}{14}, \frac{4}{2}, \frac{-4}{8}, \frac{-4}{6}$

.....

C) $\frac{2}{6}, \frac{-13}{6}, \frac{-3}{6}, \frac{-8}{6}, \frac{10}{6}, \frac{12}{6}$

.....

16) Complete the following table.

Algebraic Expression	Number of terms	Coefficient of the term	Like terms	Constant terms
$-6a + 4a + 8a - 11a + 1$				
$3b + 8c - 7 - |-8b| + 13$				
$9y - 9y + 9y - 11$				

17) Give 3 examples for numeric expressions and algebraic expressions.

18) Write the verbal expressions for each of the following expressions.

A) $8a - 5$.

B) $33 - 11b$.

C) $(5z - 2) \times 8$.

D) nn .

E) $(8b - 3) \div 6$.

19) Write the algebraic expressions for each of the following written expressions.

A) Subtract 8 from twice a number.

B) Distribute $(a - 6)$ between 6.

C) The product of a number and itself.

.....

D) The quotient of a number and 7.

.....

E) A number decreased by 10.

.....

20) Omar is a runner, if he run 2 km every day, write the expressions for the distance in a month.

.....

.....

.....

21) If the square side is m, find its perimeter and area.

.....

.....

.....

22) A rectangle with length a and width b, find its area and perimeter.

.....

.....

.....

23) Evaluate each of the following expressions.

A) $3^4 - [2 \times 15 + 11] + 15 \div 3$.

.....

.....

B) $[5^2 - 3^2] \div 4 + 1$.

.....

.....

C) $8^2 \div 16 + 6 - 10$.

.....

.....

24) If $a=2$ and $b=5$, Then find the result of each of the following.

A) $(a + b)^2$

.....

.....

B) $(a - b)^2$

.....

.....

C) $(b - a)^3$

.....

.....

D) $(\frac{b}{a})^2$

.....

.....

25) Evaluate $[16m \div 4n + 3mn] \div 2$, When $m=9$ and $n=6$.

.....

.....

26) If $x = 18 - 4 \times 2 \div 2 + 1$ and $y = 8 + 9 \times 3 - 4^2 + 11$, Then find the numerical value of each of the following.

A) $\frac{x}{y}$

B) $\frac{y}{x}$

C) $\left(\frac{x}{x}\right)^3$

27)

Exponential form	Base	Exponent	Expanded form	Simplest form
3^3				
2^5				
5^3				
4^4				

28)

The value of x	$3x - 5$	$3(x + 1) - 6$	Have equal value or not
----------------	----------	----------------	-------------------------

$X = 1$			
$X = 2$			
$X = 3$			
$X = 4$			

29)

The value of x	$4x - 6 + 2(x - 1)$	$3(x + 1) - 5$	Have equal value or not
$X = 1$			
$X = 2$			
$X = 3$			
$X = 4$			

30)

The value of x	$5x - 3$	$3x + 3$	Have equal value or not
$X = \dots\dots\dots$			
$X = \dots\dots\dots$			
$X = \dots\dots\dots$			
$X = \dots\dots\dots$			

31)

The value of x	$3x + 2$	$3(x + 2)$	Have equal value or not
X =			
X =			
X =			
X =			

32) Name 3 solutions in the set of integers of each inequality, then graph each inequality on a number line.

A) $x < 2$.

.....



B) $x > -5$.

.....



C) $x \leq 0$.

.....



D) $x \geq 0$.



E) $x > -3$.



F) $x \leq 4$.



33)

Equation	Dependent variable	Independent variable
$3a - 6 = b$		
$Y = 7z$		
$7c + 9 = d$		
$S = 8d$		
$M = 3n - 6$		
$6k + 1 = L$		
$O = 6b + 2$		

$5a = b$		
$X = 4y$		
$5t + 3 = V$		
$R = 9Q$		

34) Evaluate each of the following for $x = 3$.

A) $y = 3x - 6$.

.....

B) $y = 4x + 3$.

.....

C) $y = 15 - 5x$.

.....

D) $y = 5.5x - 12.75$.

.....

35) Complete the following table, then make the graphs.

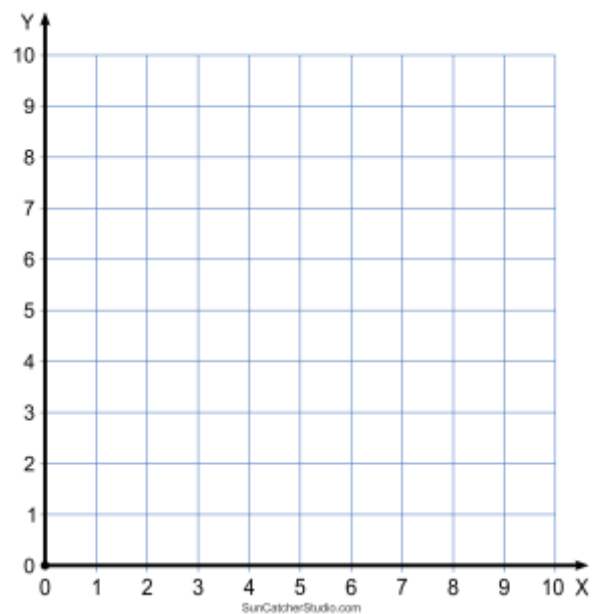
A) $y = x + 2$.

x	0	1	2
y	.....	.....	.....
(X , y)	(0 , ...)	(1 , ...)	(2 , ...)



B) $y = 2x + 1$.

x	0	1	2
y	.....	.....	.....
(X , y)	(0 , ...)	(1 , ...)	(2 , ...)



C) $y = 5 - x$.

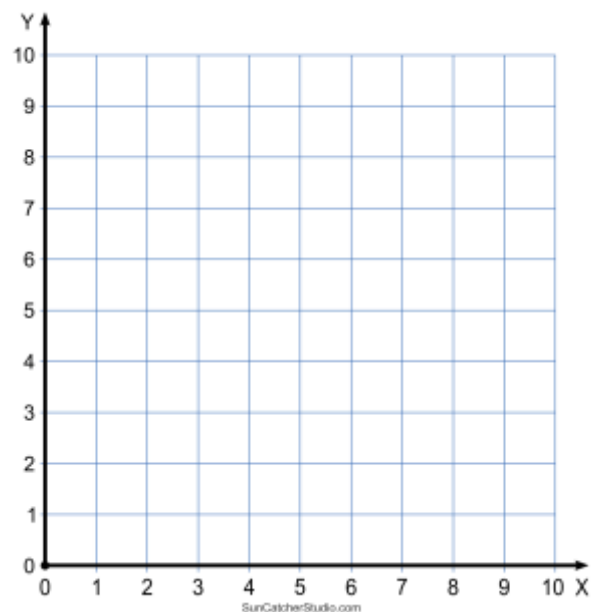
x	0	1	2
y	.....	.....	.....



(X , y)	(0 , ...)	(1 , ...)	(2 , ...)
---------	-----------	-----------	-----------

D) $y = 3x$.

x	0	1	2
y	.....	.....	.....
(X , y)	(0 , ...)	(1 , ...)	(2 , ...)



36) Identify which of the following are statistical and non-statistical.

A) Which is your favorite color.

.....

B) How tall are you.

.....

C) Which city is the capital of Egypt.

.....

D) How tall are the student in your class.

.....

E) How many letters in the word of Egypt.

.....

F) How many letters in your name.

.....

G) How many books did you read last year.

.....

H) How many books did the students in your class read last year.

.....

37) Identify which result of each of the following would be numerical data or categorical data.

A) How many letters in each student name.

.....

B) The letters in each student name.

.....

C) Which sport is your favorite sport.

.....

D) How many boys in your class.

.....

E) How many letters in the word of Egypt.

.....

F) What is the most common hair color in your class.

.....

G) How many pets do the student in your class have.

.....

H) What T.V show do the student in your class like

.....

38) From the following histogram answer each of the following.

A) Which interval has the maximum number of student.

.....

B) Which interval has the minimum number of student.

.....

C) How many students whose interval are less than 30.

.....

D) How many students whose interval are less than 60.

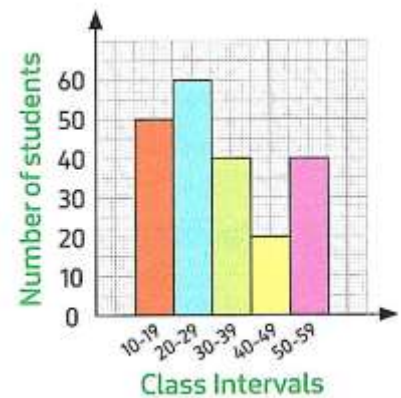
.....

E) How many students whose interval are greater than 29.

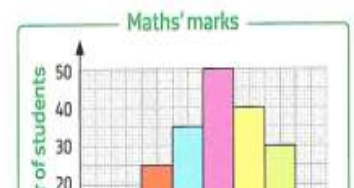
.....

F) How many students whose interval are greater than 60.

.....



39) From the following histogram answer each of the following.



A) Which interval has the maximum number of student.

.....

B) Which interval has the minimum number of student.

.....

C) How many students whose marks are less than 70.

.....

D) How many students whose marks are less than 40.

.....

E) How many students whose marks are greater than 59.

.....

F) How many students whose marks are greater than 89.

.....

40) The following data represents the age of 40 teacher in a school, form a frequency table and represent the data using the histogram.

36	29	42	39	27	51	56	38	42	48
56	47	34	28	25	41	48	38	47	41
48	58	31	27	36	37	28	34	49	34
45	36	27	48	29	37	58	59	37	38

41) The following data represents the weight of 30 student in a school, form a frequency table and represent the data using the histogram.

28	30	31	34	29	35	27	28	30	29
30	24	24	38	27	40	39	28	30	34
27	38	23	27	38	37	28	34	24	34

42) Draw the box plot for each of the following data.

A) 53 , 51 , 57 , 60 , 54 , 57 , 49 , 54.



Maximum value =

Minimum value =

Median =

Q1 =

Q3 =

B) 28 , 36 , 30 , 29 , 32 , 28 , 27 , 35 , 32.



Maximum value =

Minimum value =

Median =

Q1 =

Q3 =

C) 42 , 45 , 46 , 50 , 48 , 39 , 38 , 48.



Maximum value =

Minimum value =

Median =

Q1 =

Q3 =

D) 71 , 80 , 85 , 74 , 79 , 84 , 82 , 79.



Maximum value =

Minimum value =

Median =

Q1 =

Q3 =

E) 11 , 16 , 18 , 8 , 16 , 17 , 13 , 19 , 14.



Maximum value =

Minimum value =

Median =

Q1 =

Q3 =

F) 45 , 39 , 48 , 38 , 42 , 41 , 39 , 43 , 48.



Maximum value =

Minimum value =

Median =

Q1 =

Q3 =

43) Calculate the mean using balance point for each of the following data.

A) 5 , 6 , 8 , 9 , 10 , 10.



B) 13 , 14 , 14 , 9 , 10 , 12 , 12 , 12.



C) 7 , 7 , 10 , 9 , 12.



D) 13 , 14 , 16 , 16 , 17 , 18 , 18.



44) Calculate the mean using fair share for each of the following data.

A) 8 , 13 , 6 , 2.

B) 7 , 8 , 0 , 5.

C) 0 , 1 , 3 , 3 , 3 , 4 , 5 , 5.

D) 7 , 8 , 10 , 12 , 12 , 11.

45) Calculate the mean for each of the following.

A) 7 , 8 , 5 , 4 , 6.

.....

B) 15 , 12 , 10 , 14 , 10 , 17.

.....

C) 7 , 7 , 7 , 7 , 7.

.....

D) 20 , 24 , 16 , 36 , 18.

.....

46) Calculate the mean, median, mode, outlier and the range for each of the following.

A) 3 , 5 , 4 , 7 , 6 , 9 , 5 , 20.

.....
.....

Mean =

Range =

Median =

Mode =

Outlier =

B) 21 , 18 , 16 , 24 , 3.

.....
.....

Mean =

Median =

Mode =

Outlier =

Range =

C) 16 , 12 , 32 , 14 , 18 , 15.

.....
.....

Mean =

Median =

Mode =

Outlier =

Range =

47) For each of the following choose which will be better mean, median or either.

A dot plot showing the number of books read by students. The horizontal axis is labeled with a bracket and a blank line. The vertical axis has tick marks from 0 to 10. The data points are: 1 book (1 dot), 2 books (2 dots), 3 books (3 dots), 4 books (4 dots), 5 books (5 dots), 6 books (3 dots), 7 books (2 dots), 8 books (1 dot), 9 books (2 dots), 10 books (1 dot).

A dot plot showing a symmetric distribution of red dots on a horizontal axis. The distribution is bell-shaped, centered at the 5th tick mark. The axis is labeled with a bracket and a blank line for the range.

[]

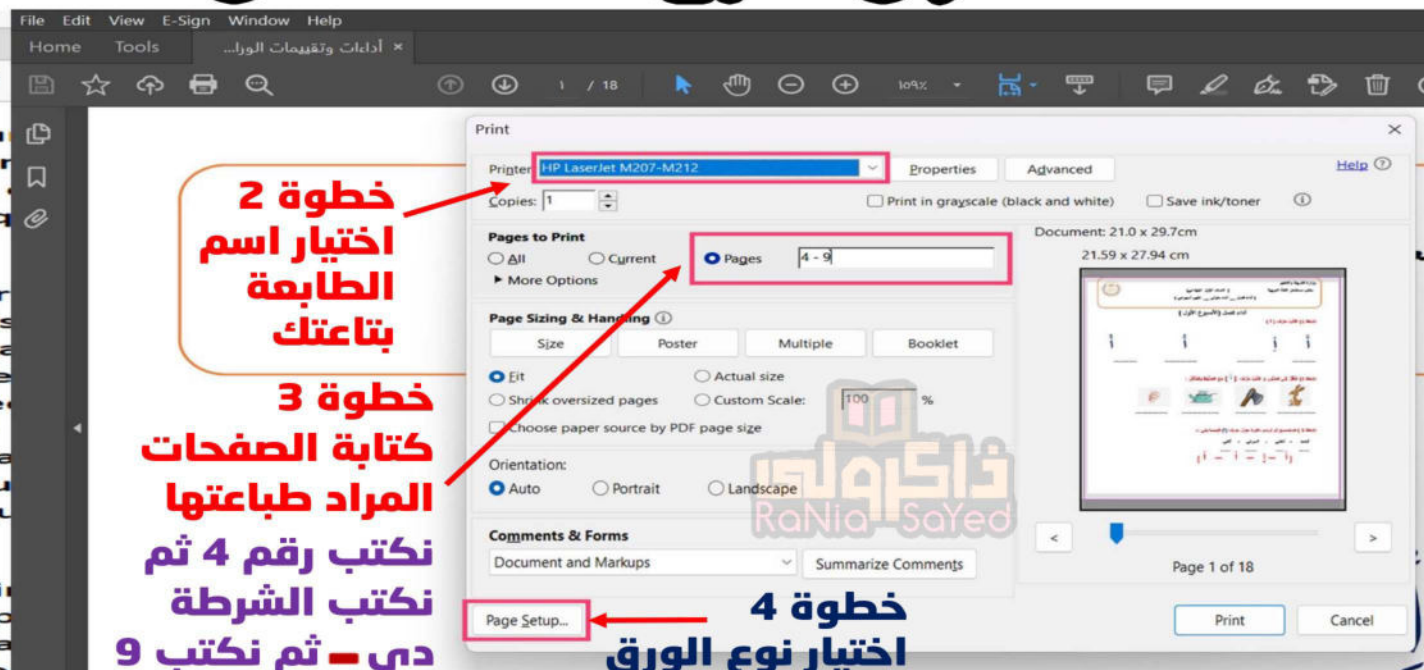
[]

كيفية طباعة صفحات معينة من ملف معين

مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



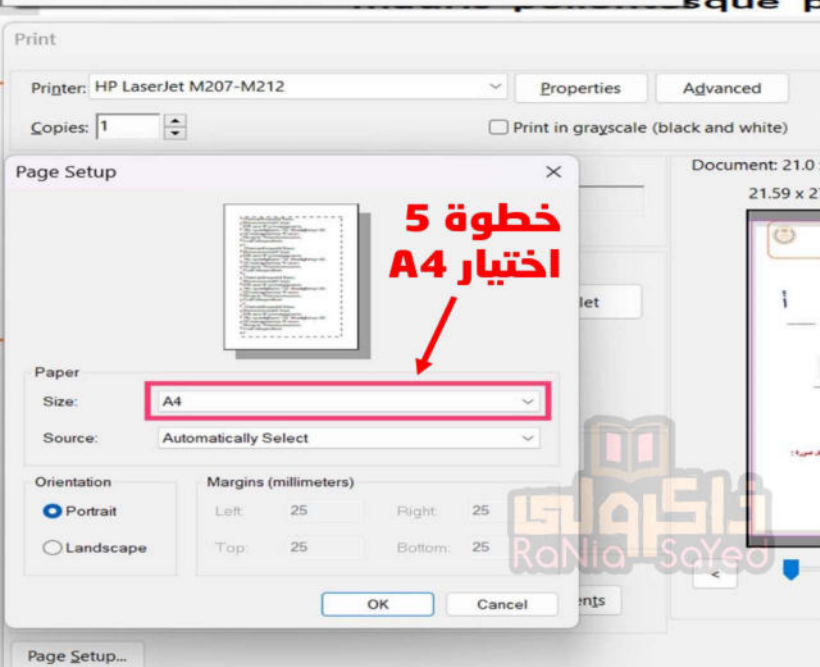
خطوة 1



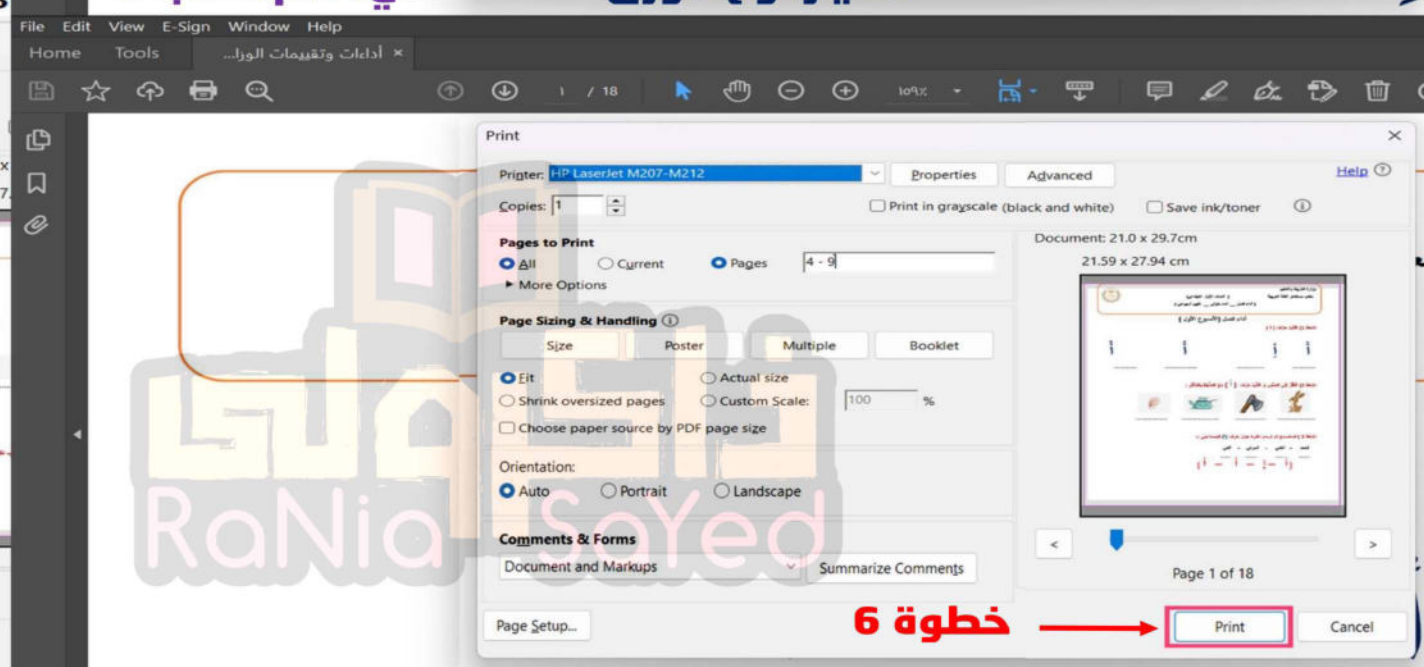
خطوة 2
اختيار اسم
الطابعة
بتاعتك

خطوة 3
كتابة الصفحات
المراد طباعتها
نكتب رقم 4 ثم
نكتب الشرطة
دي - ثم نكتب 9

خطوة 4
اختيار نوع الورق



خطوة 5
اختيار A4



خطوة 6